SOME PRELIMINARY THOUGHTS ON THE OPERATIONAL USE OF SYNTHETIC SATELLITE IMAGERY

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NOAA/NWS Denver/Boulder, Colorado

* Data automatically available in AWIPS for about a year

* 24-hour forecasts (hourly resolution) 1200 UTC “today” through 1200 UTC “tomorrow”

* Available around 09Z for midnight and later shift’s use

* Useful in all program areas (aviation, public, fire weather)

1600 UTC 27 FEB 2011
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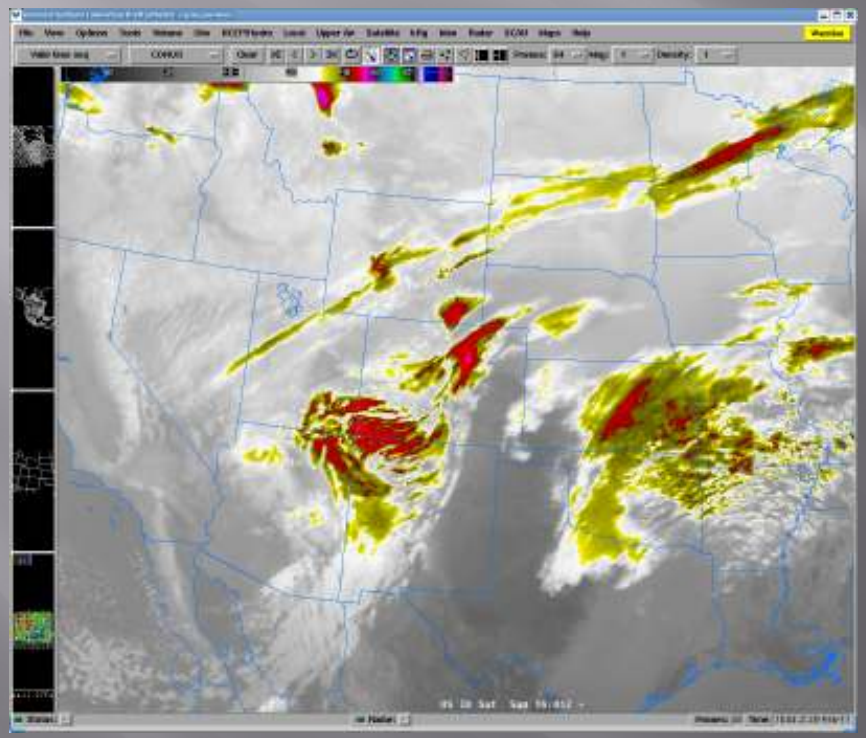

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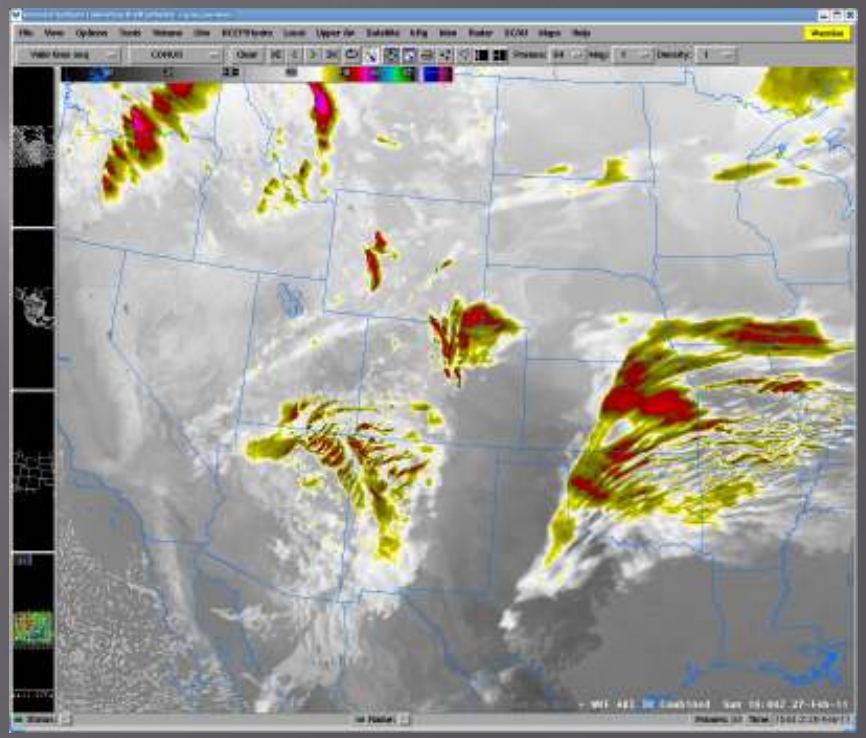

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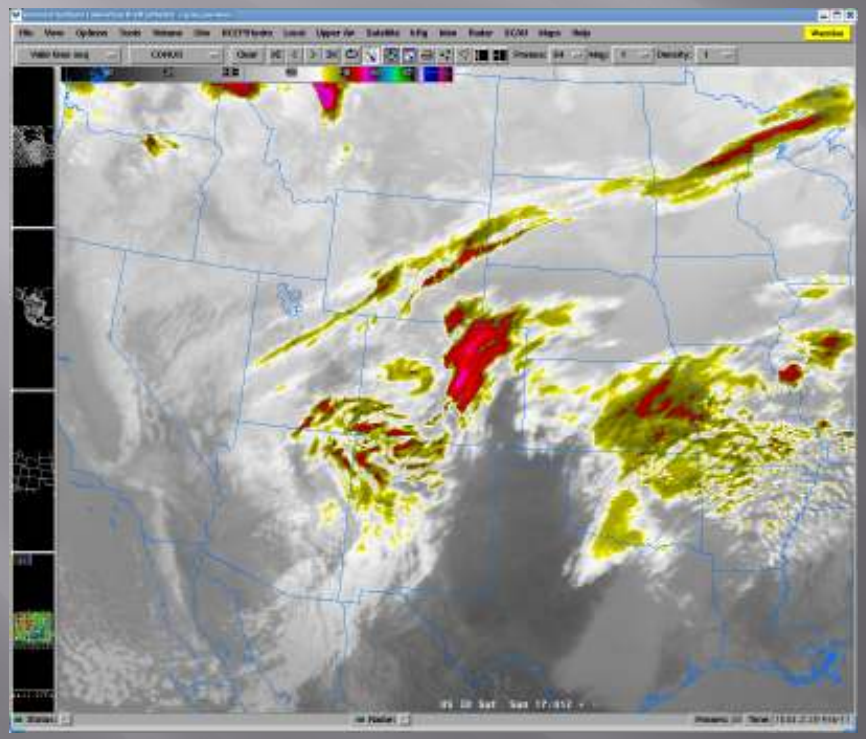

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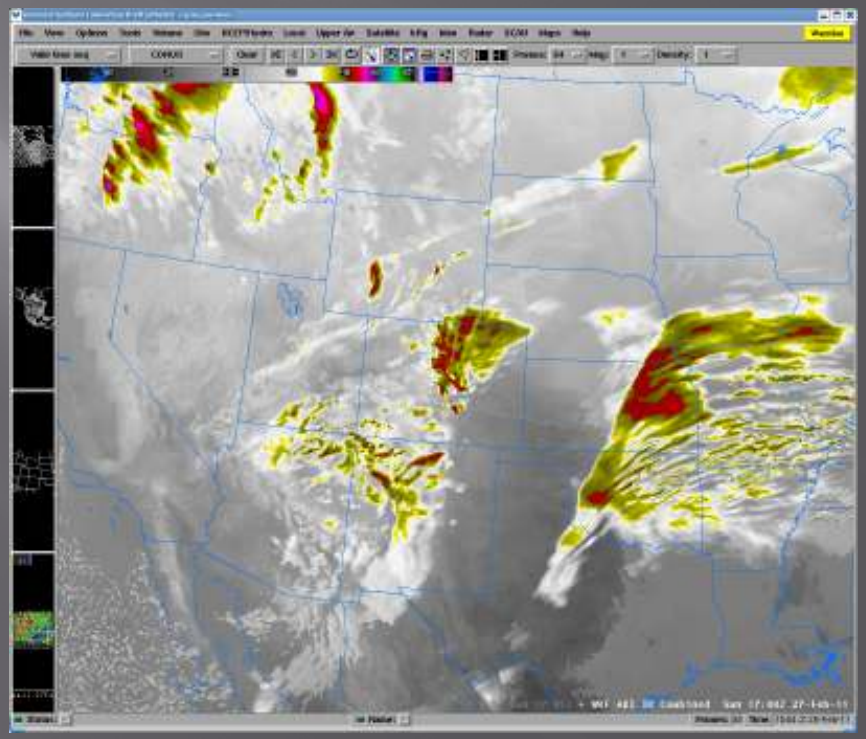

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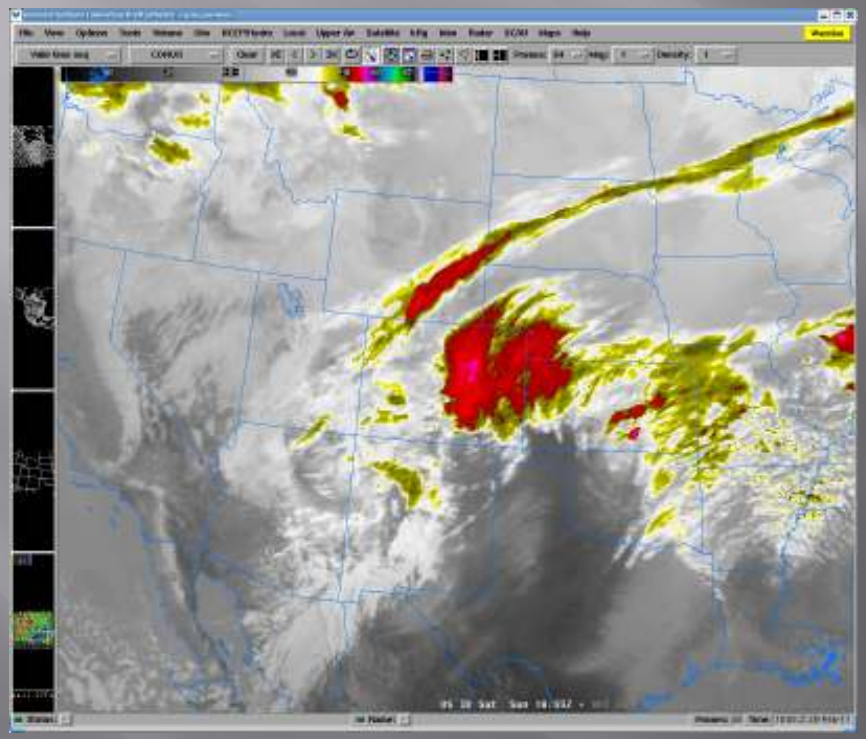

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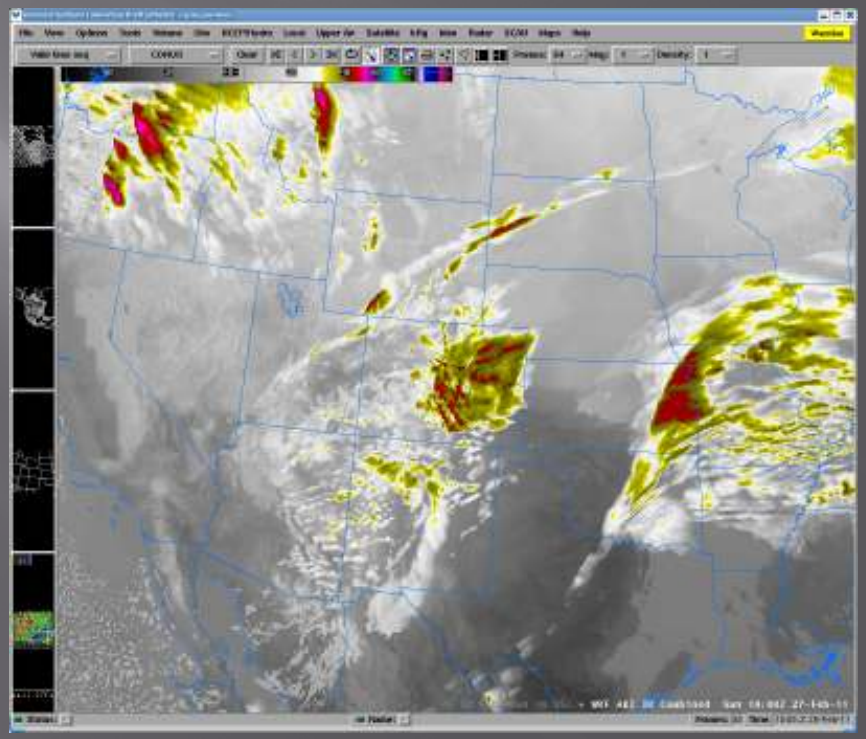

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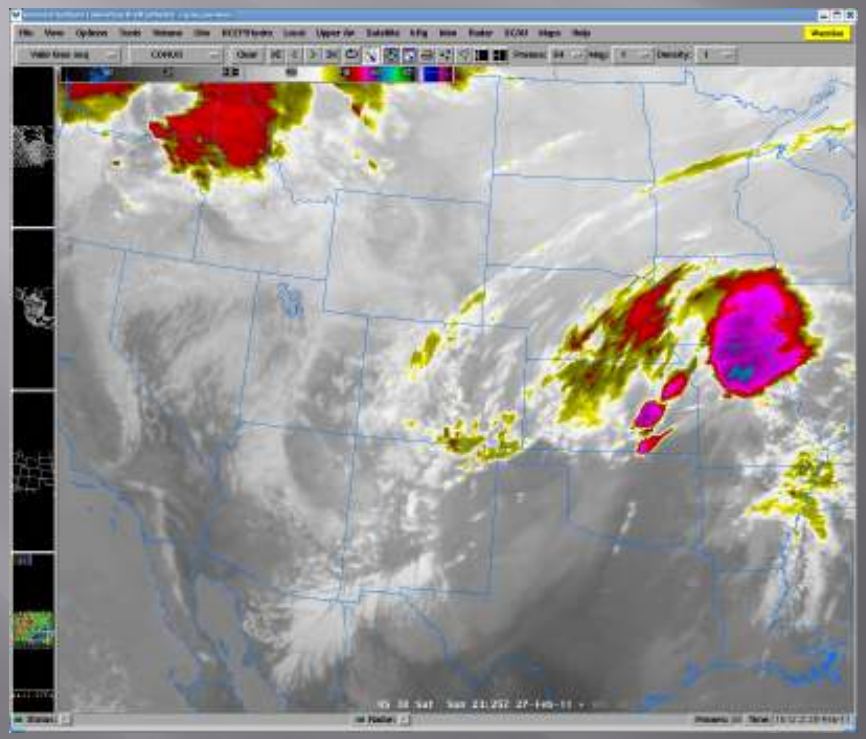

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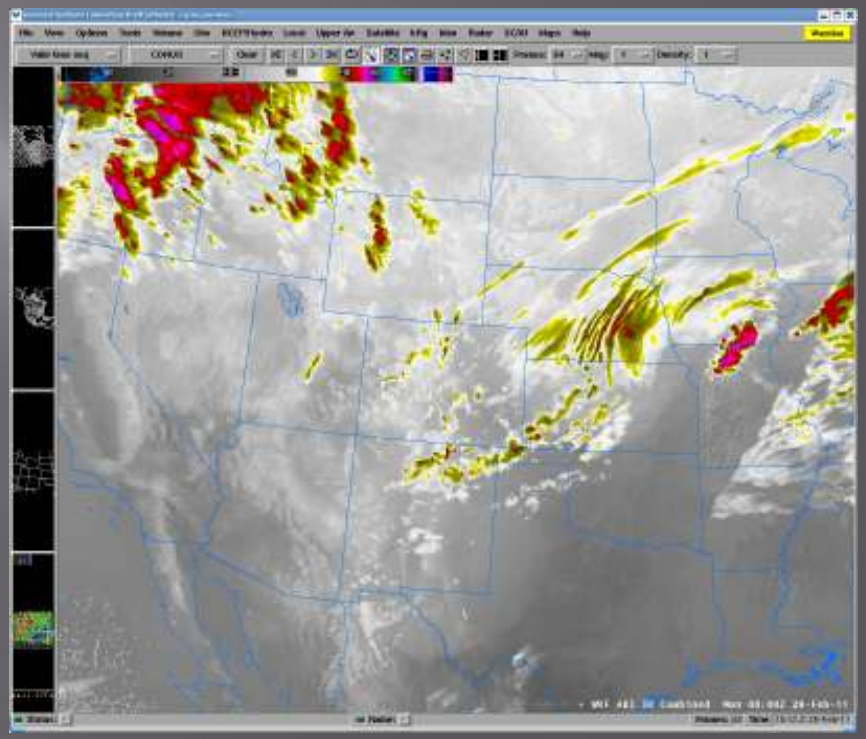

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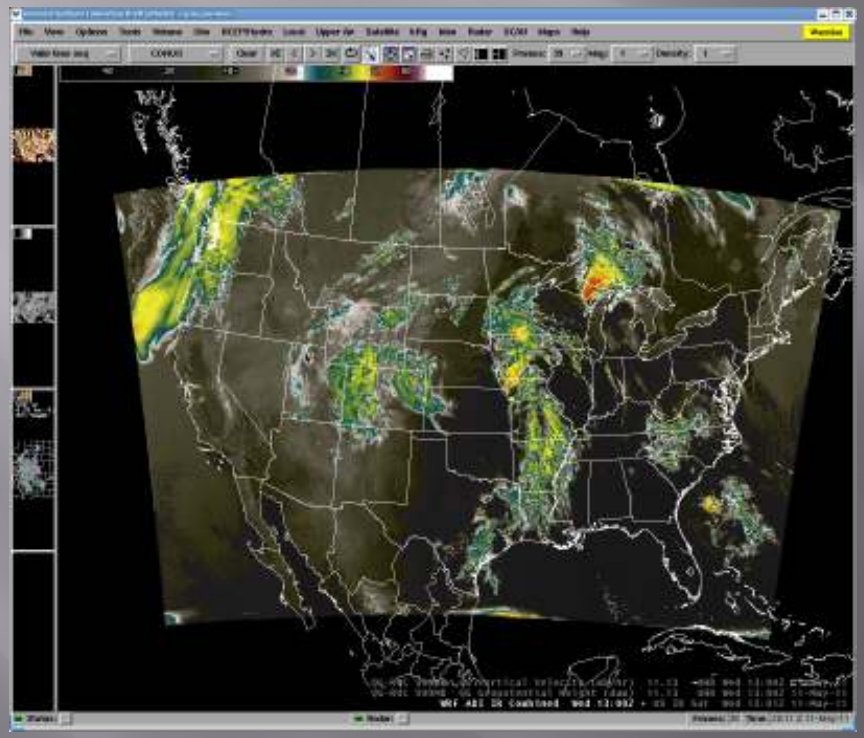

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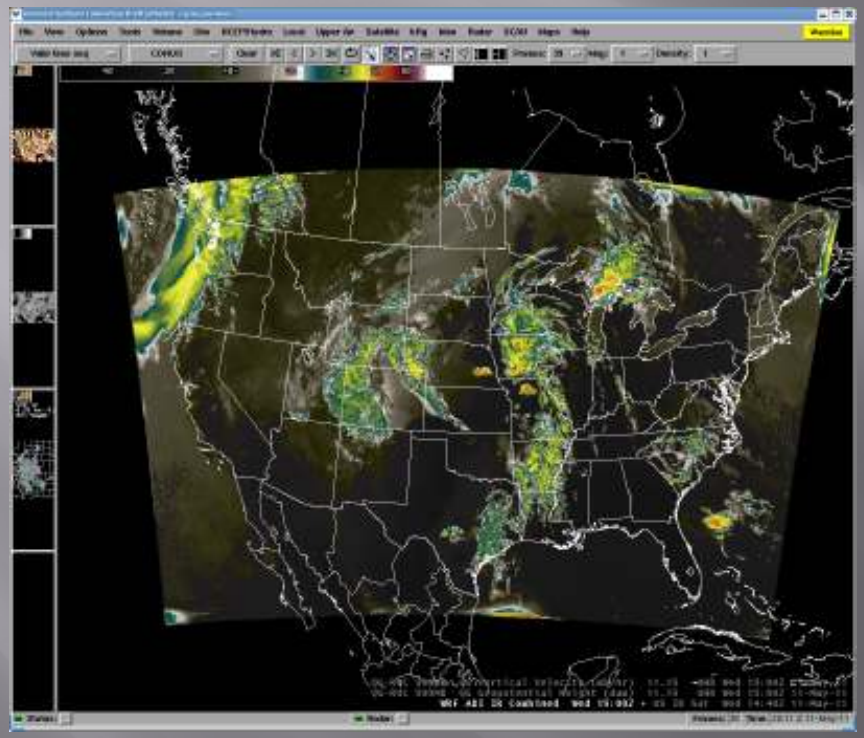

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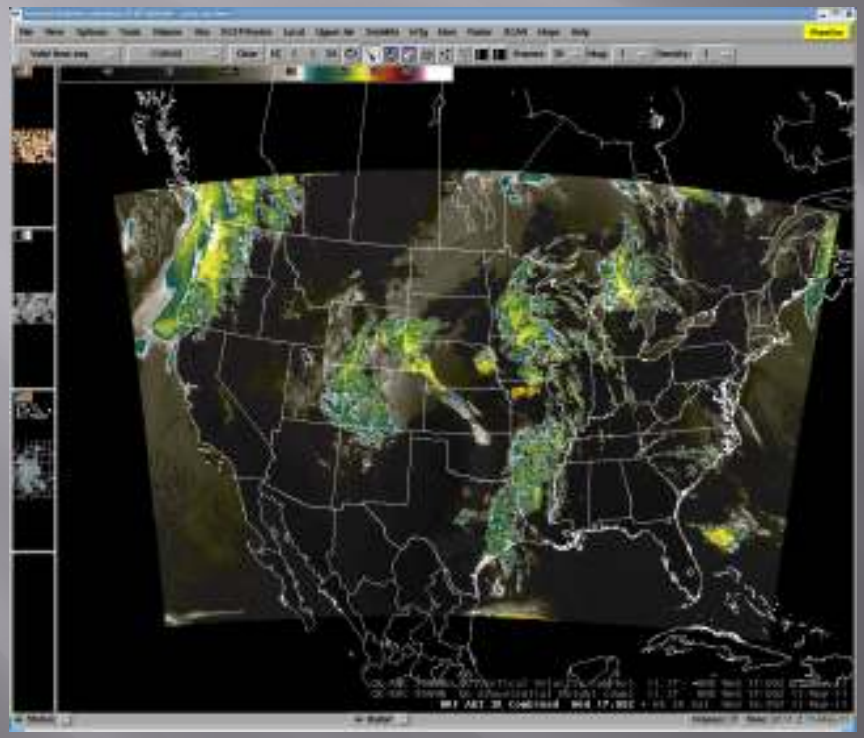

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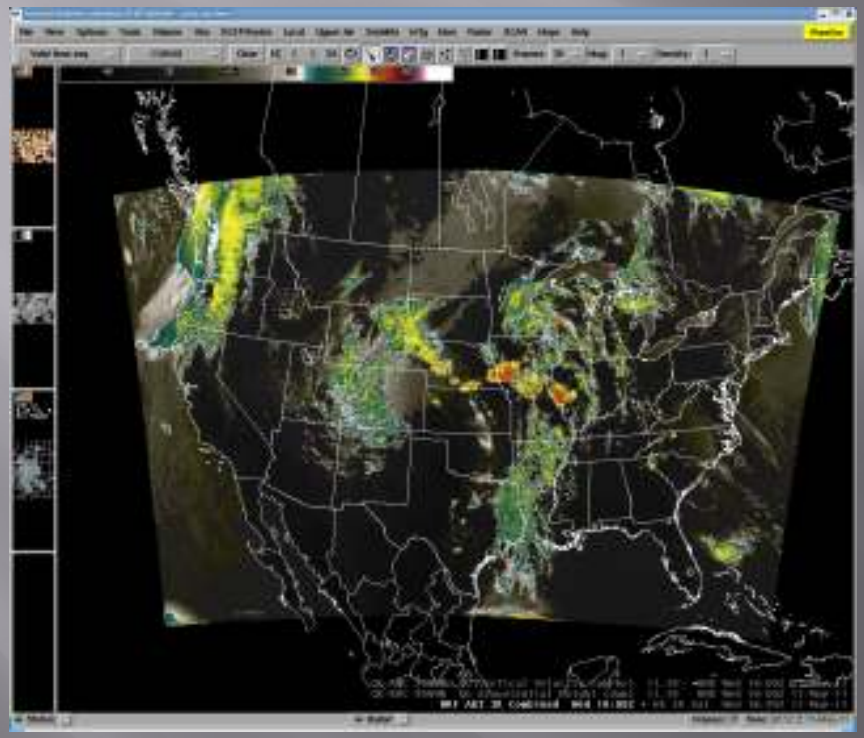

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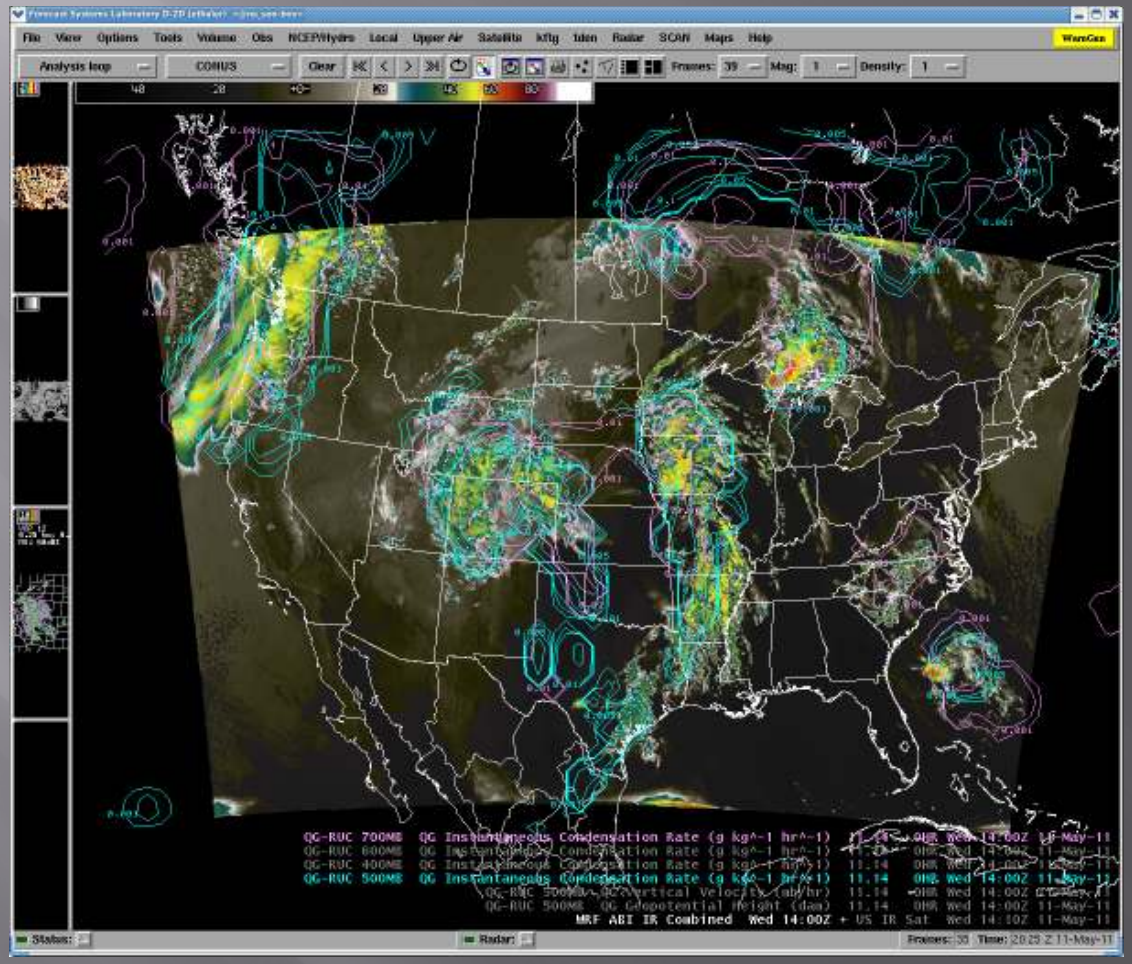

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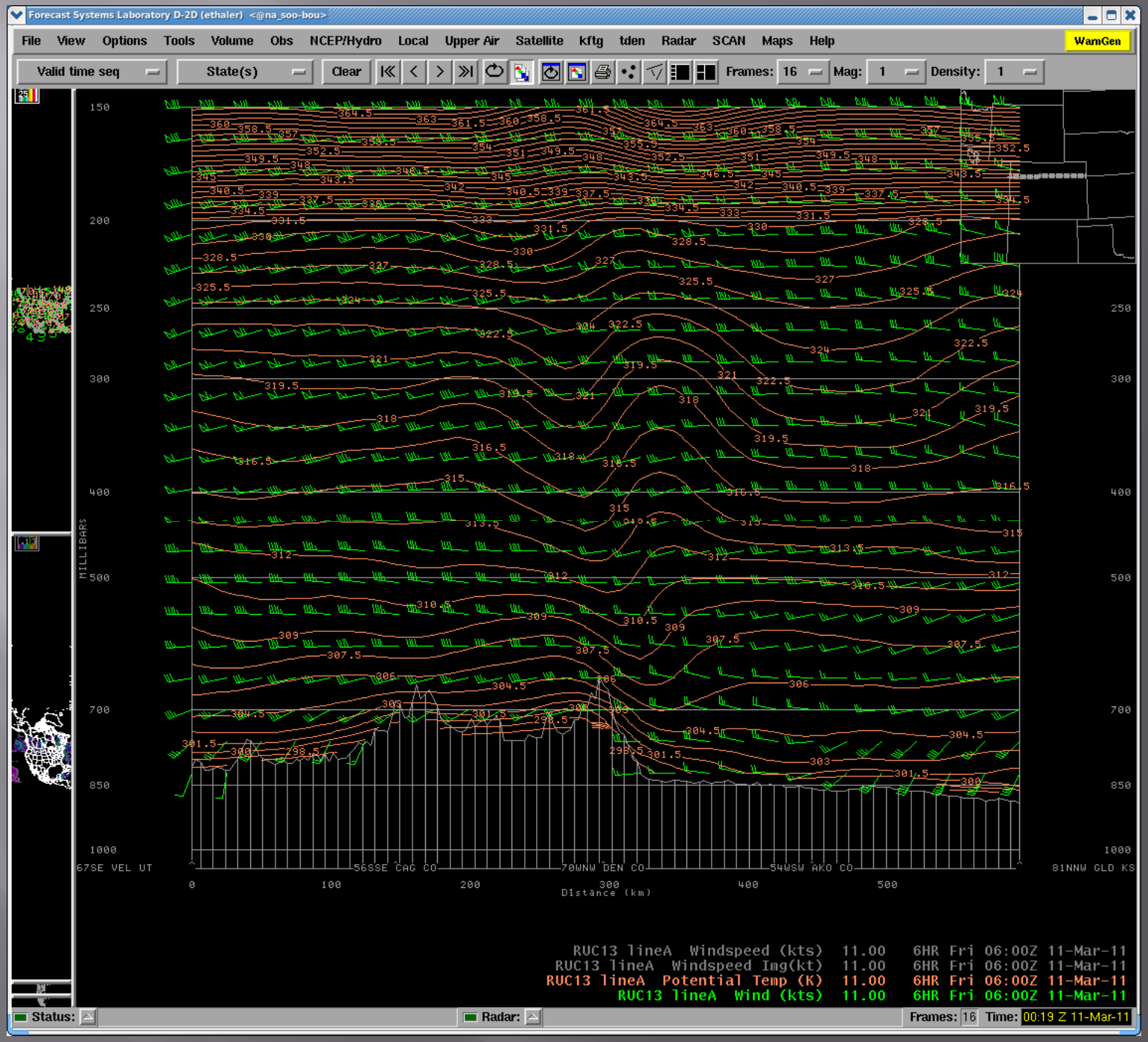
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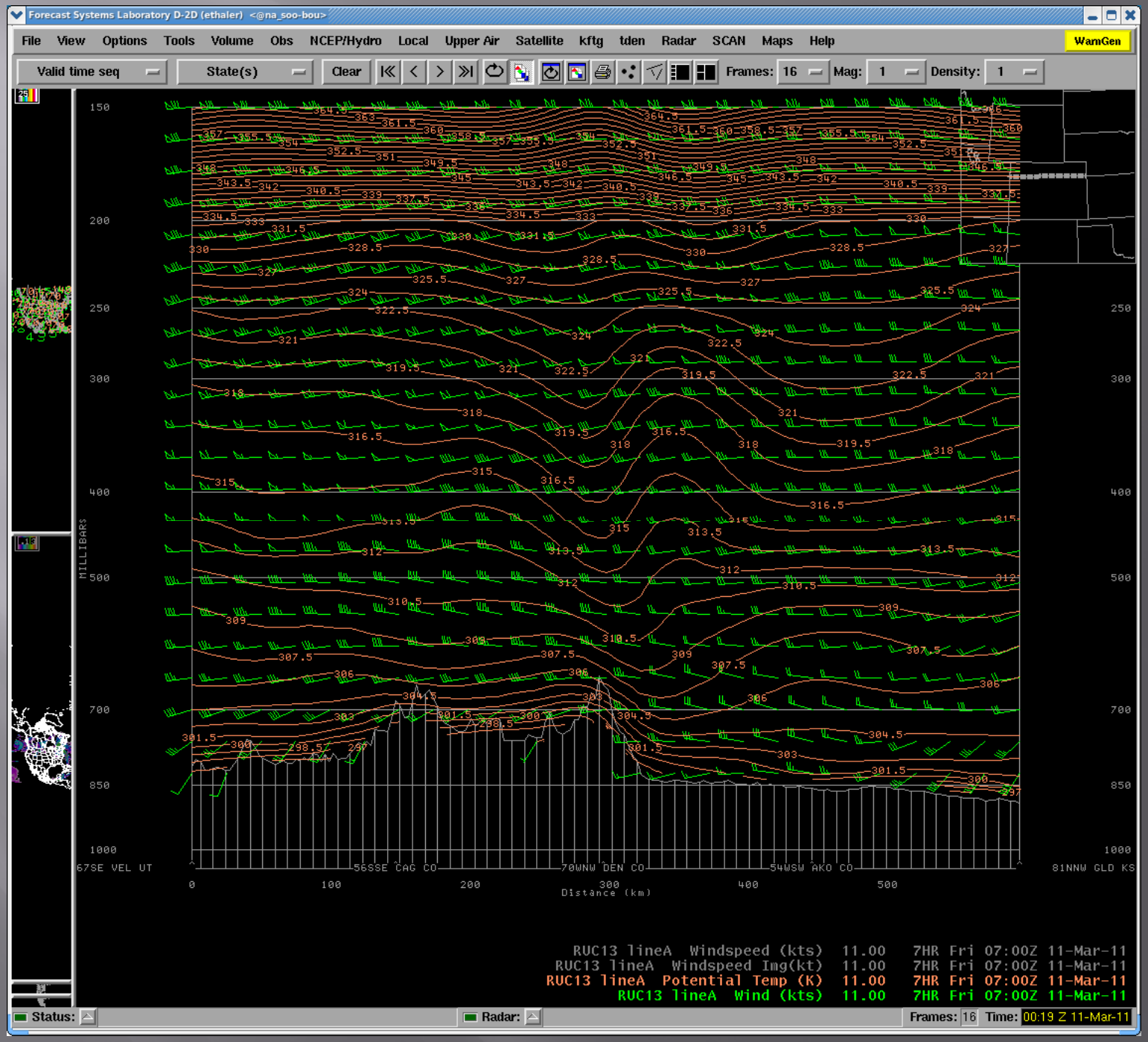
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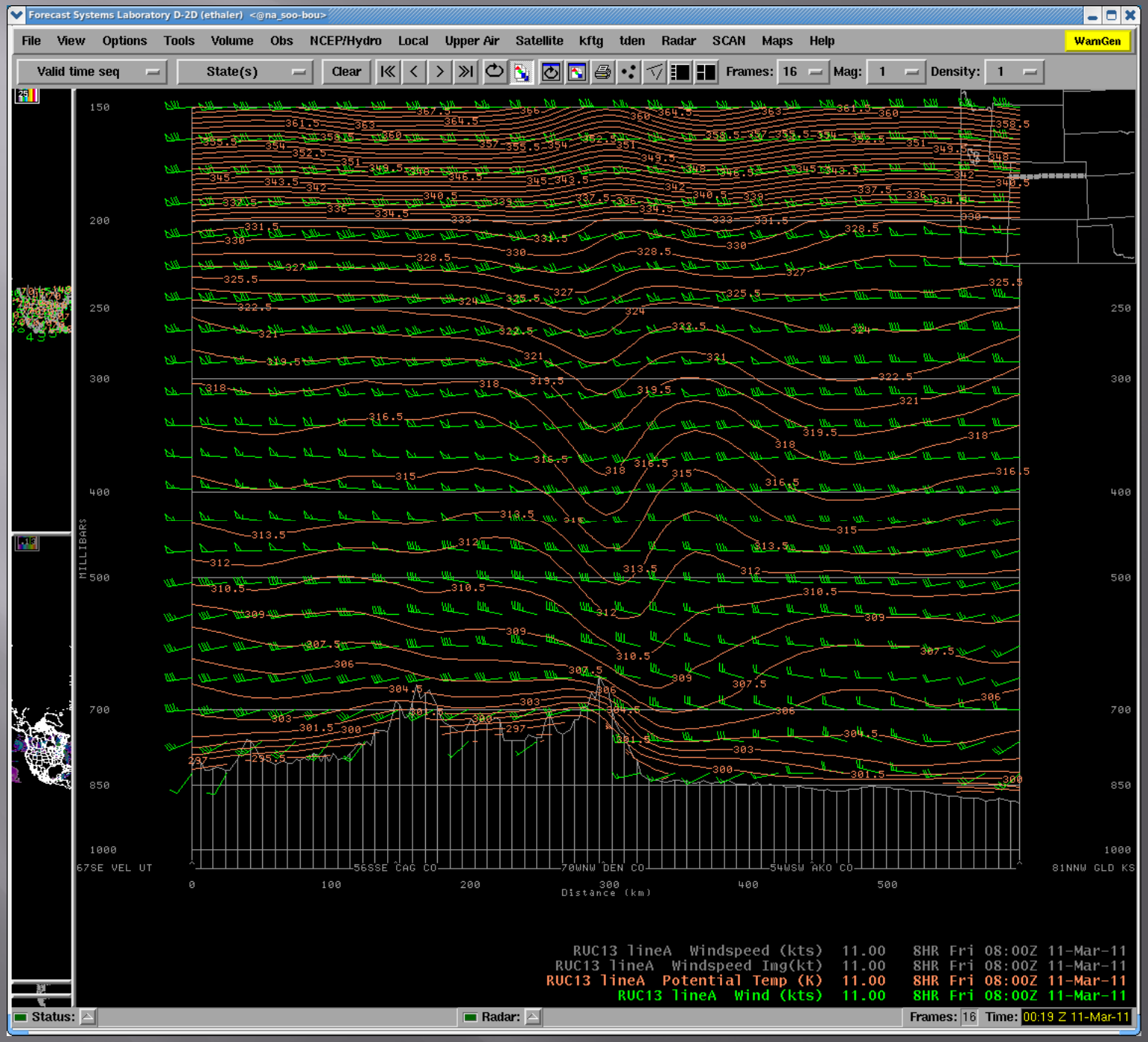
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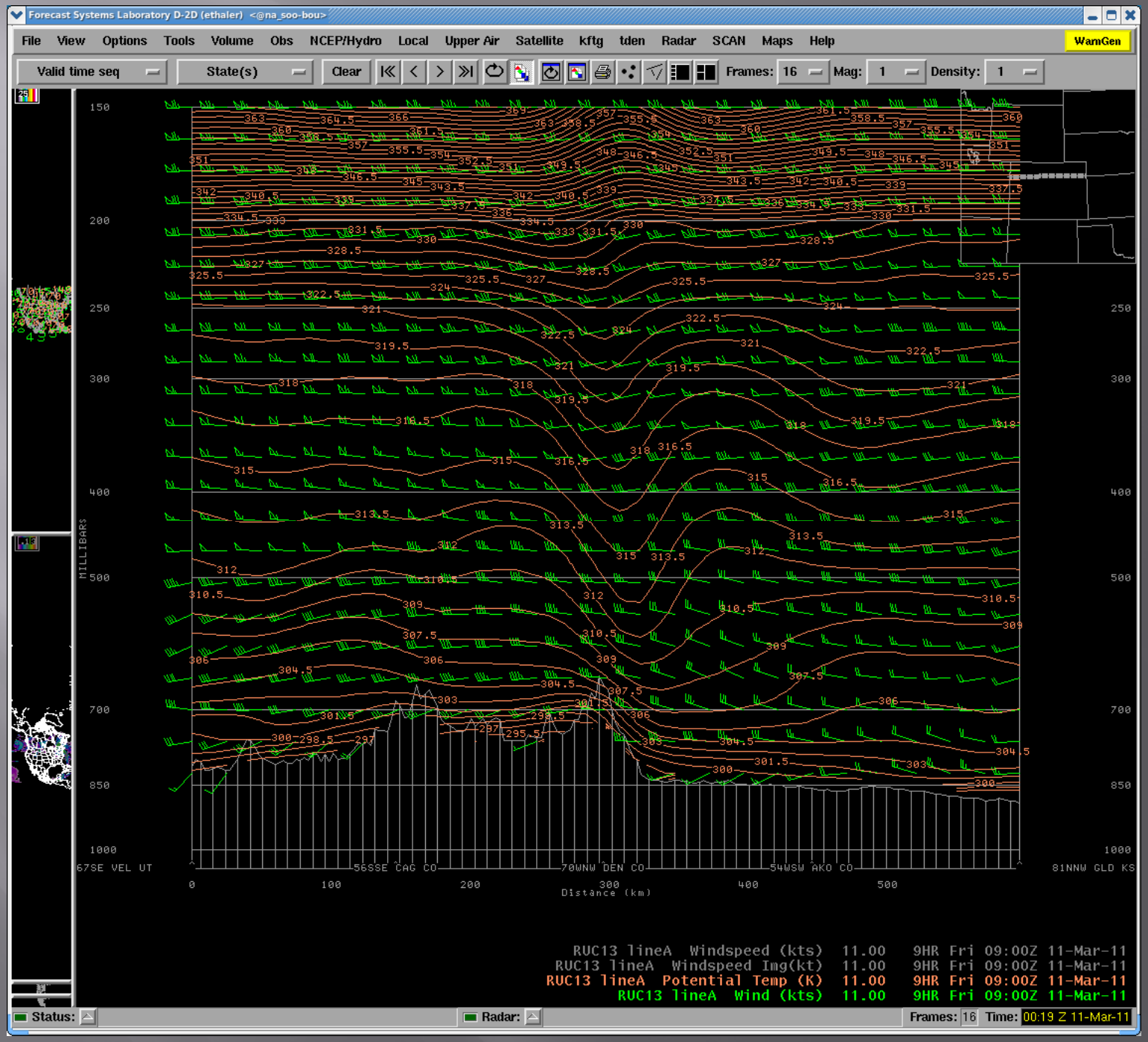
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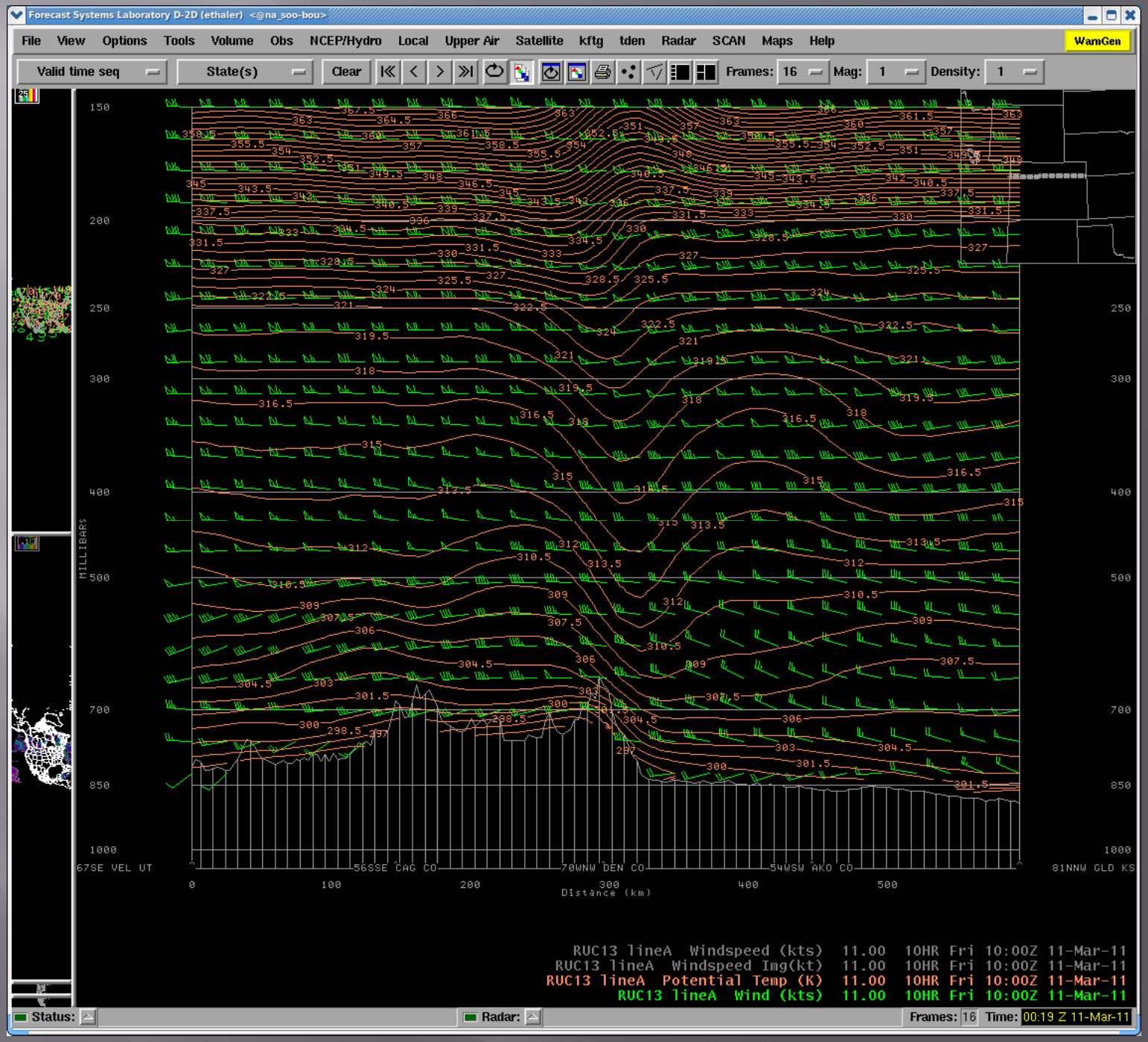
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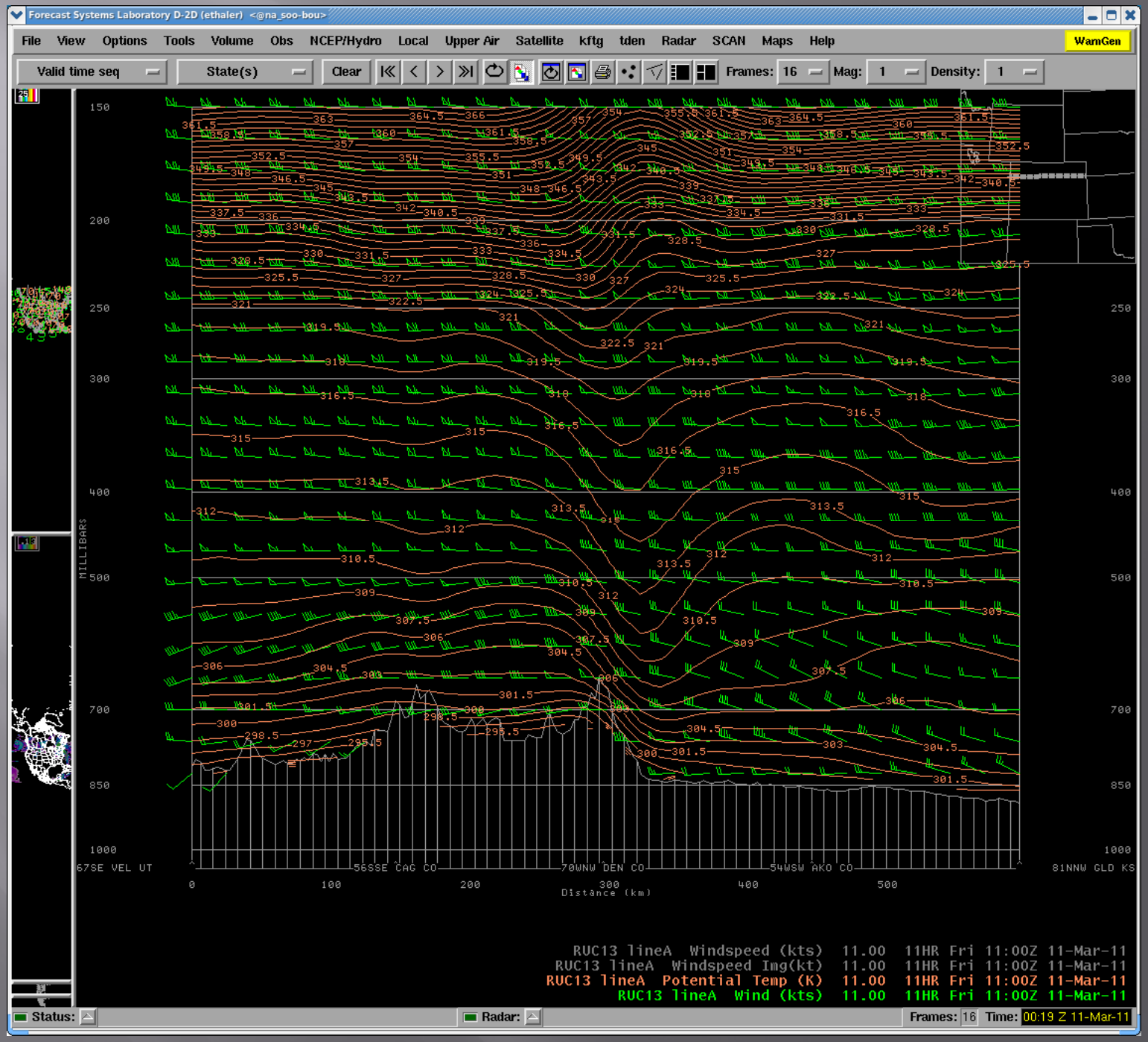
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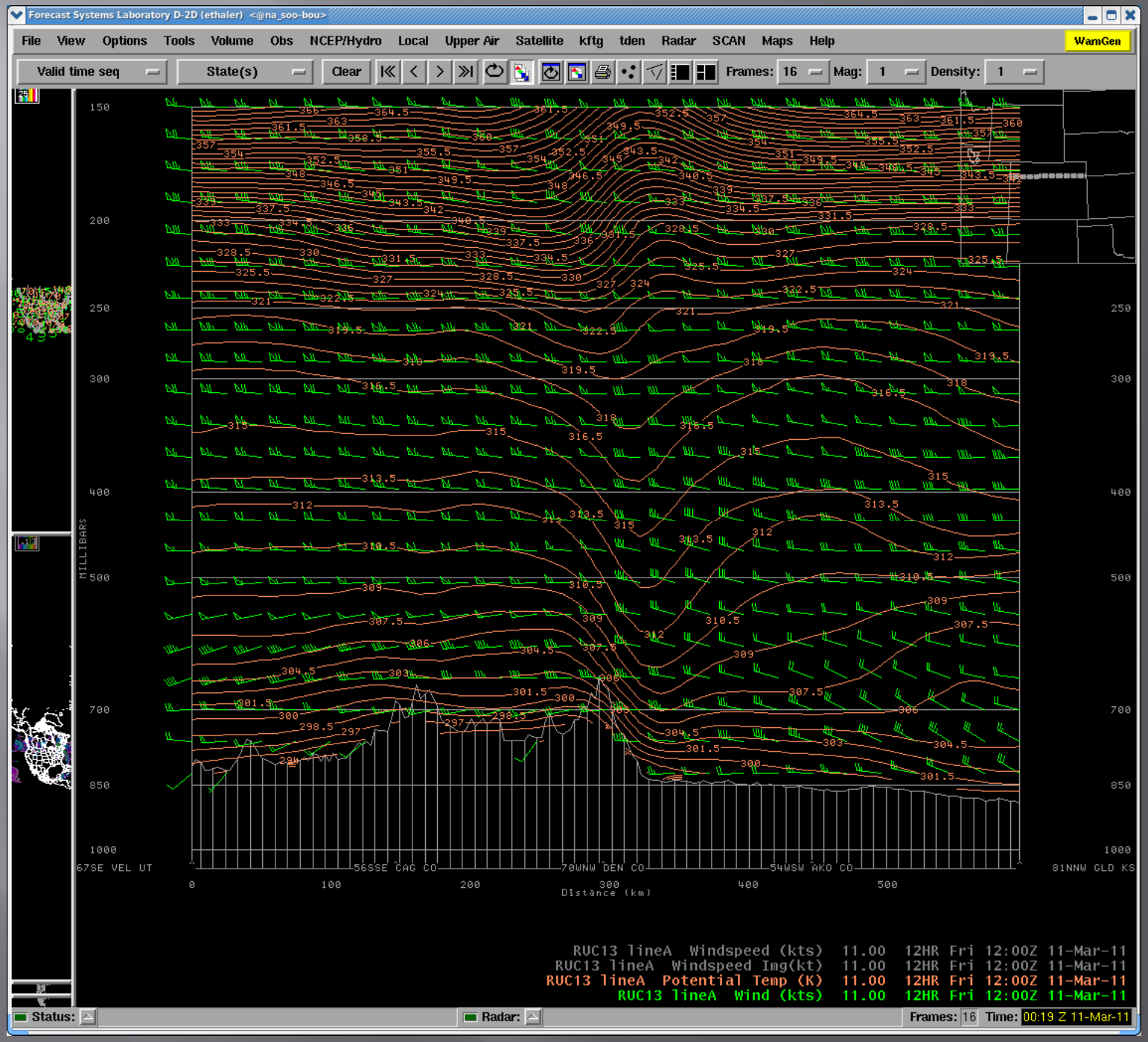
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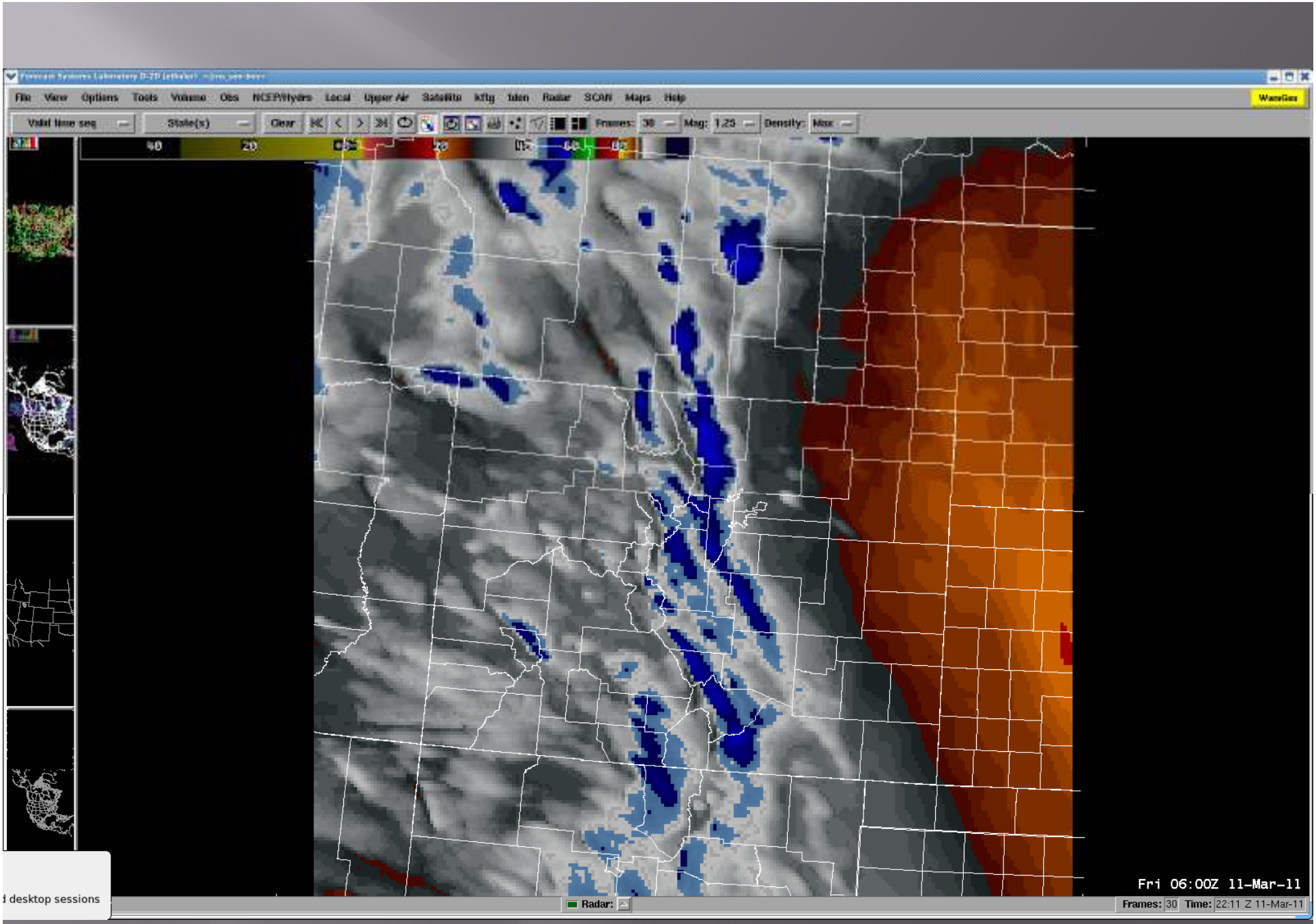
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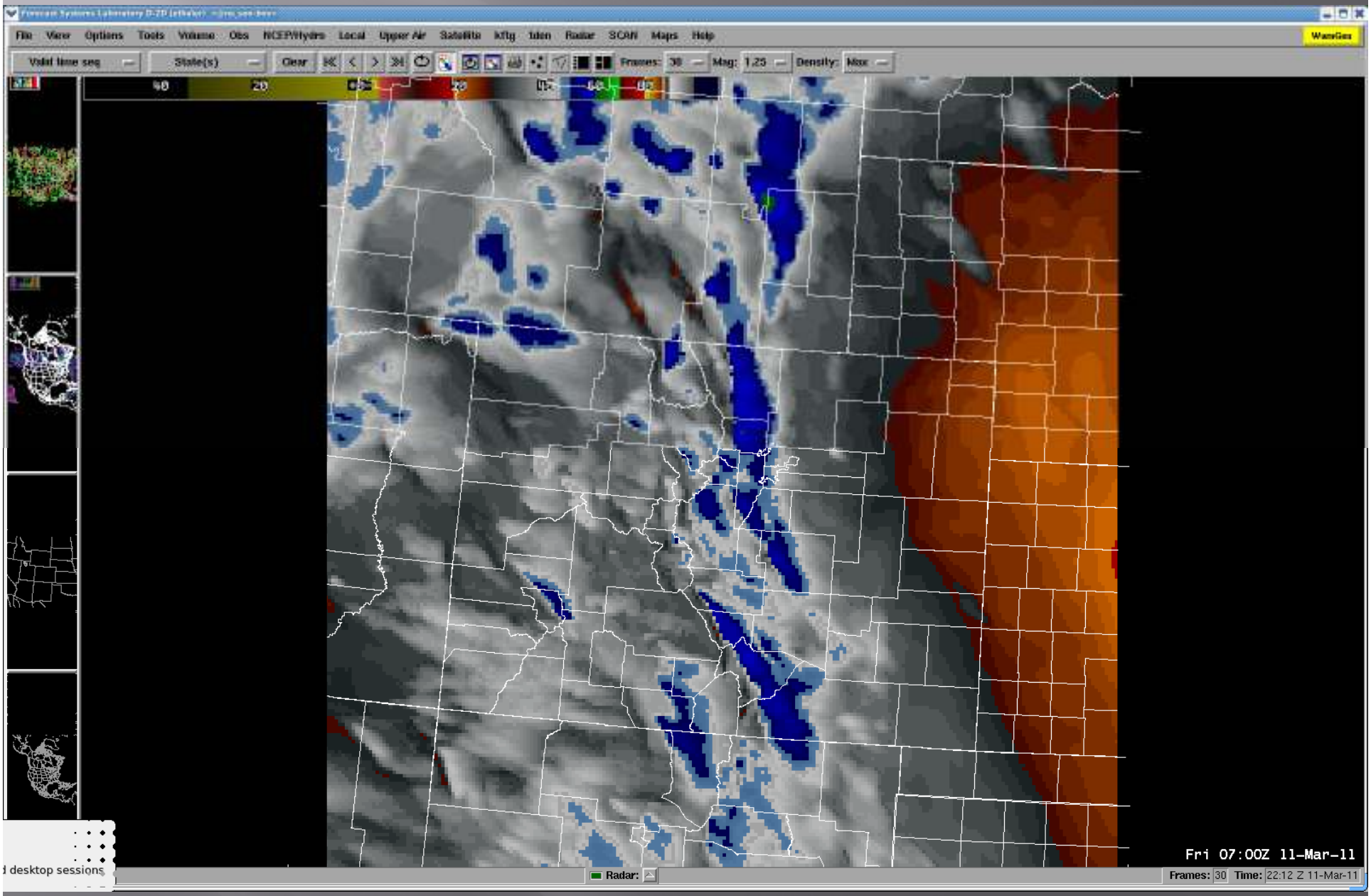
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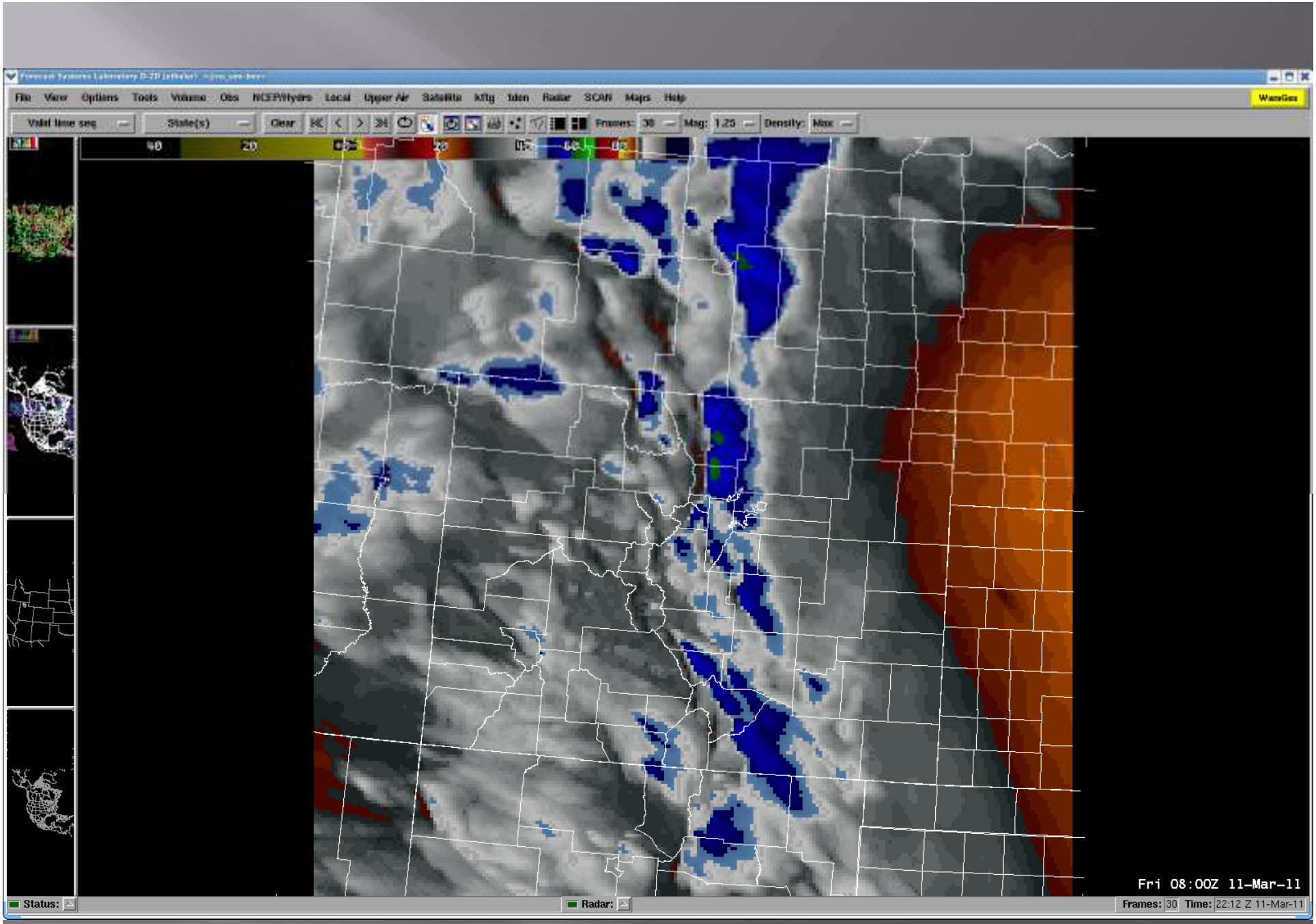
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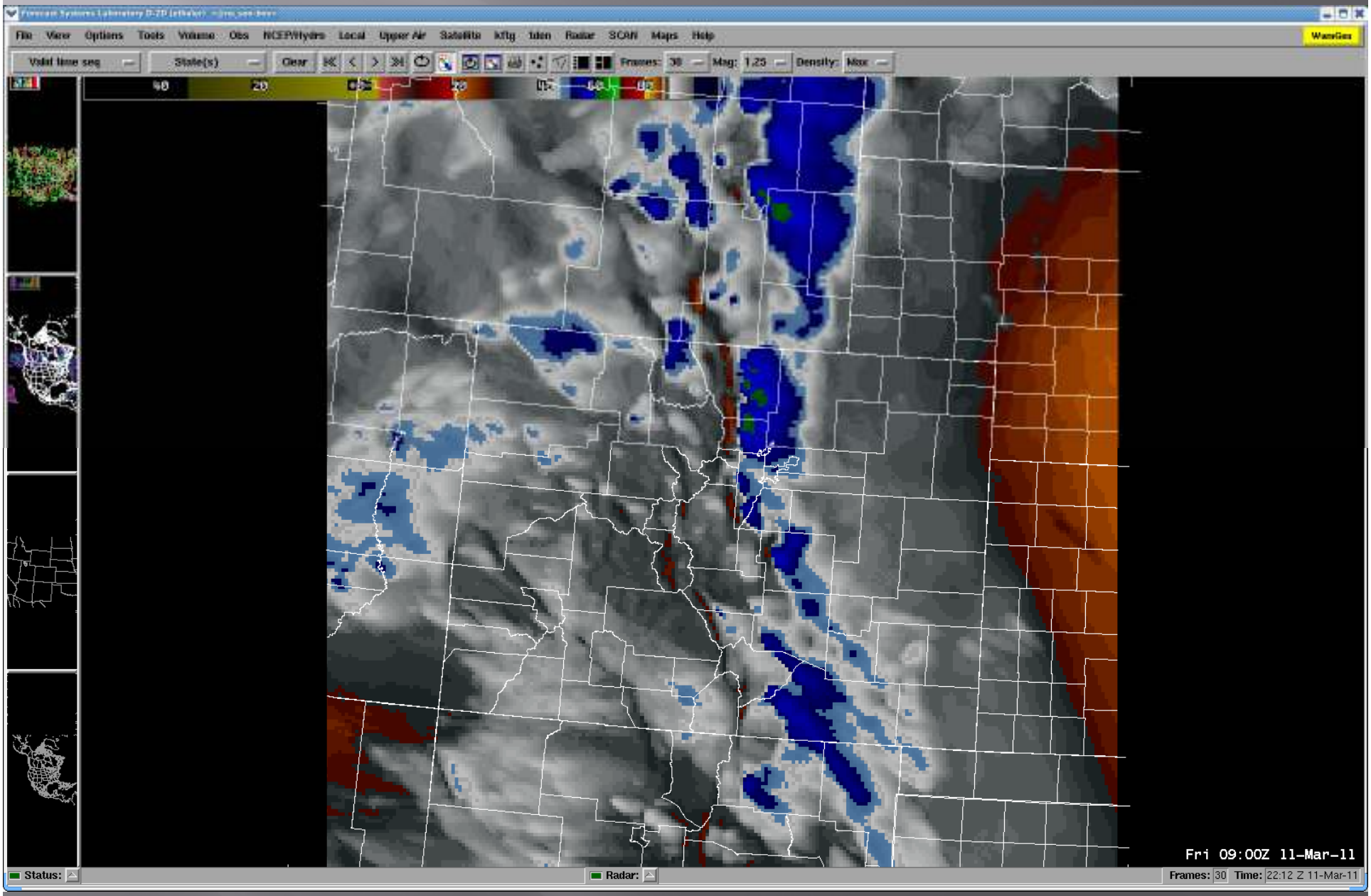
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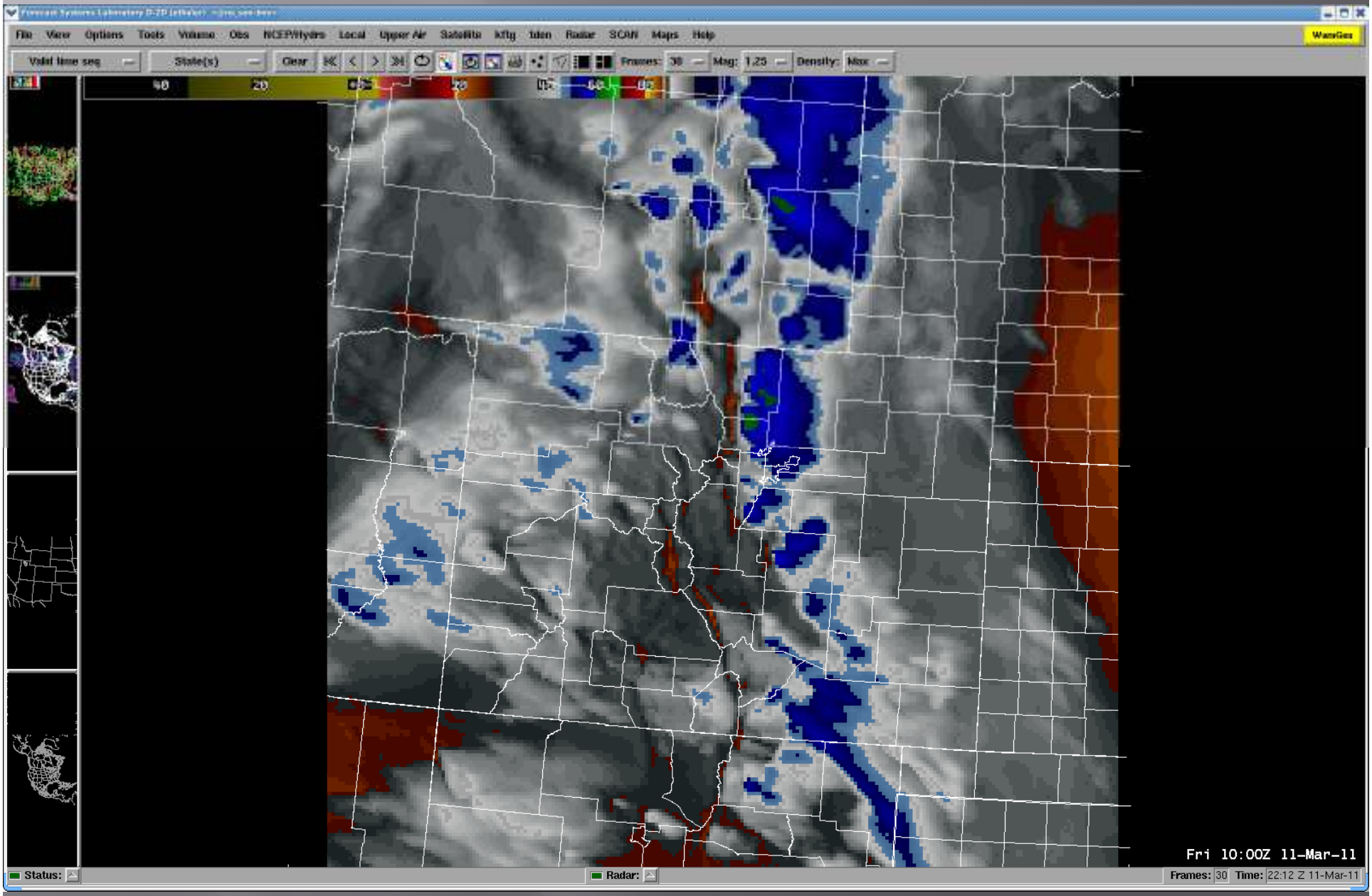
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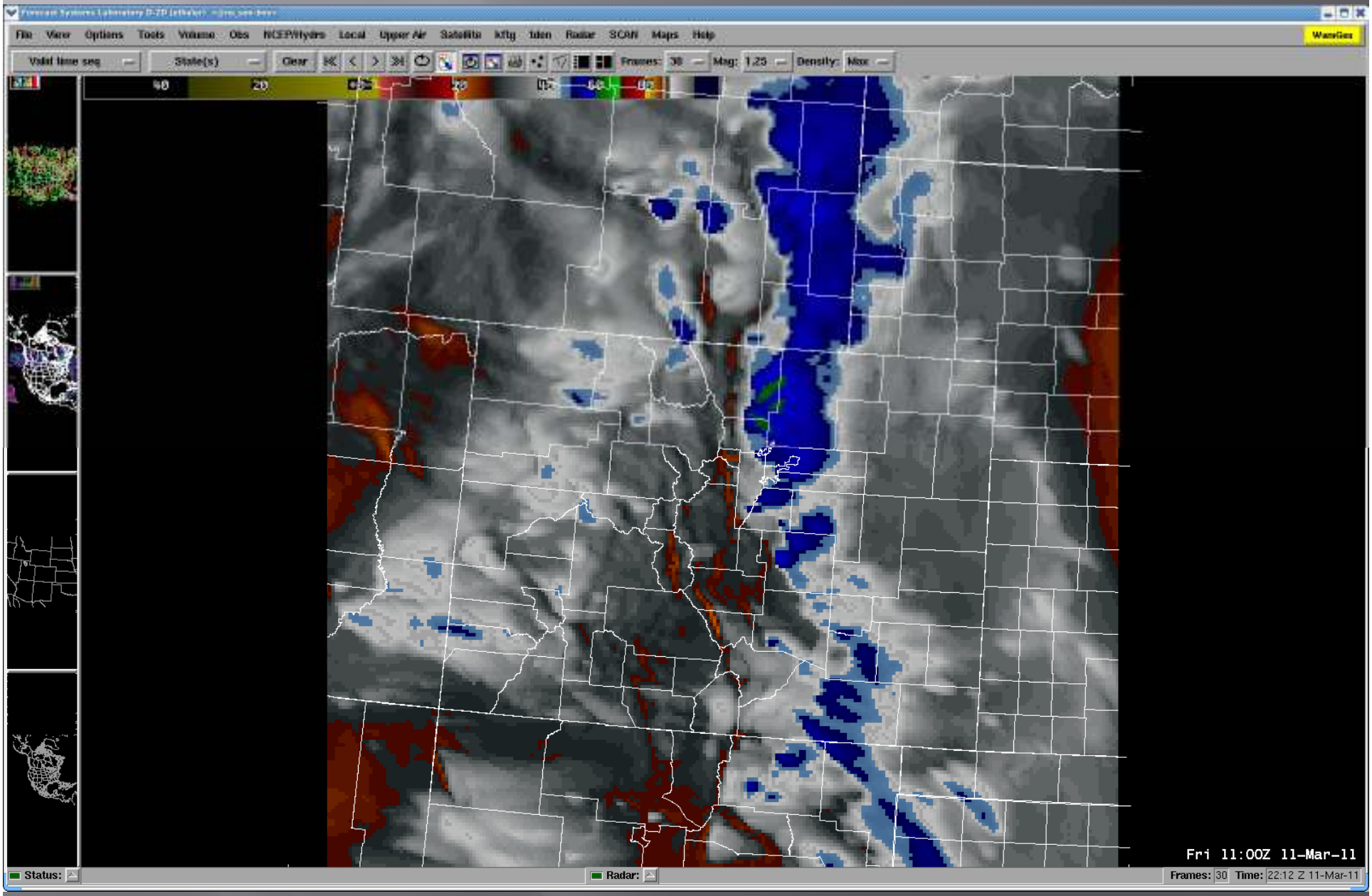
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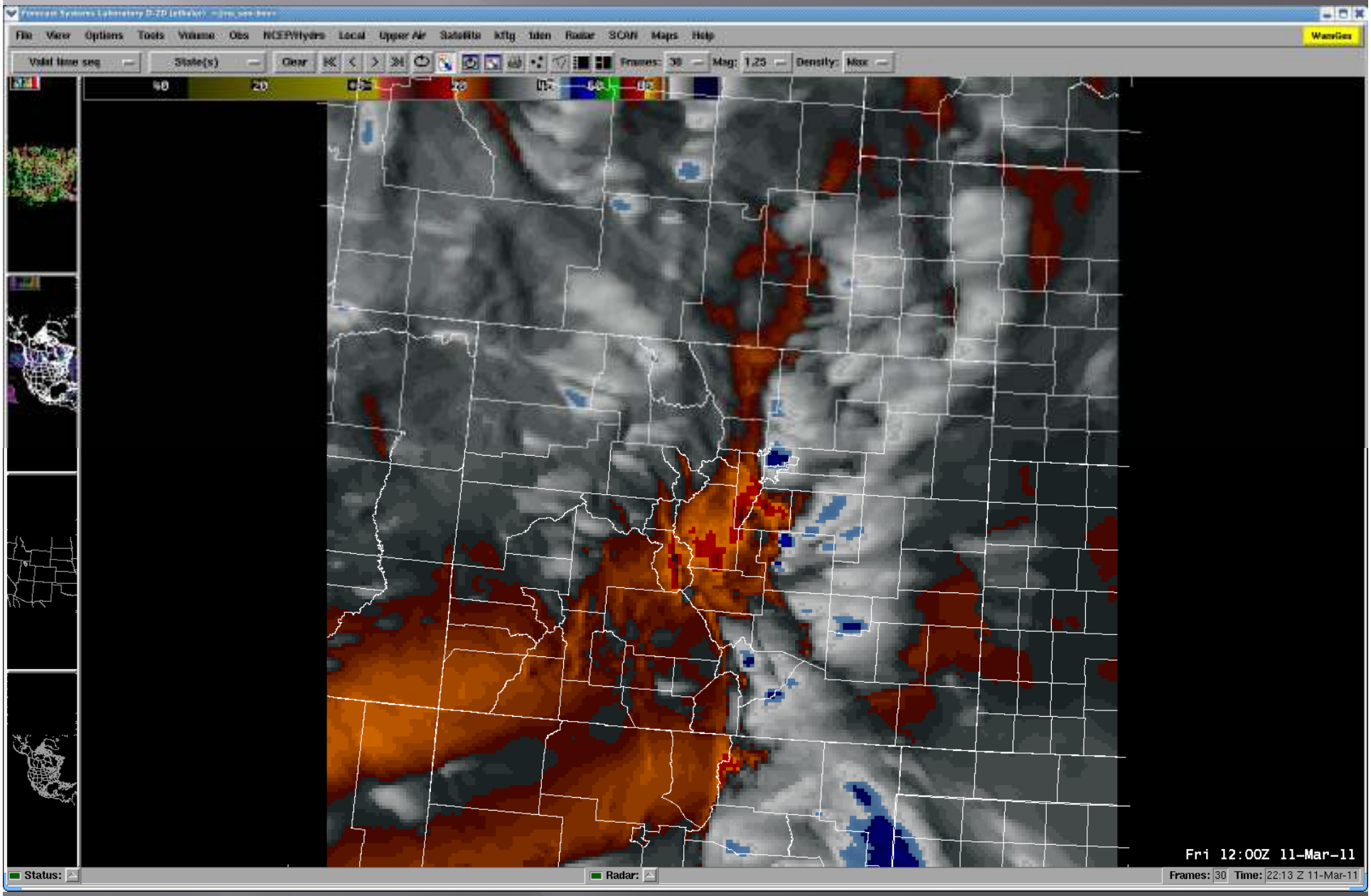
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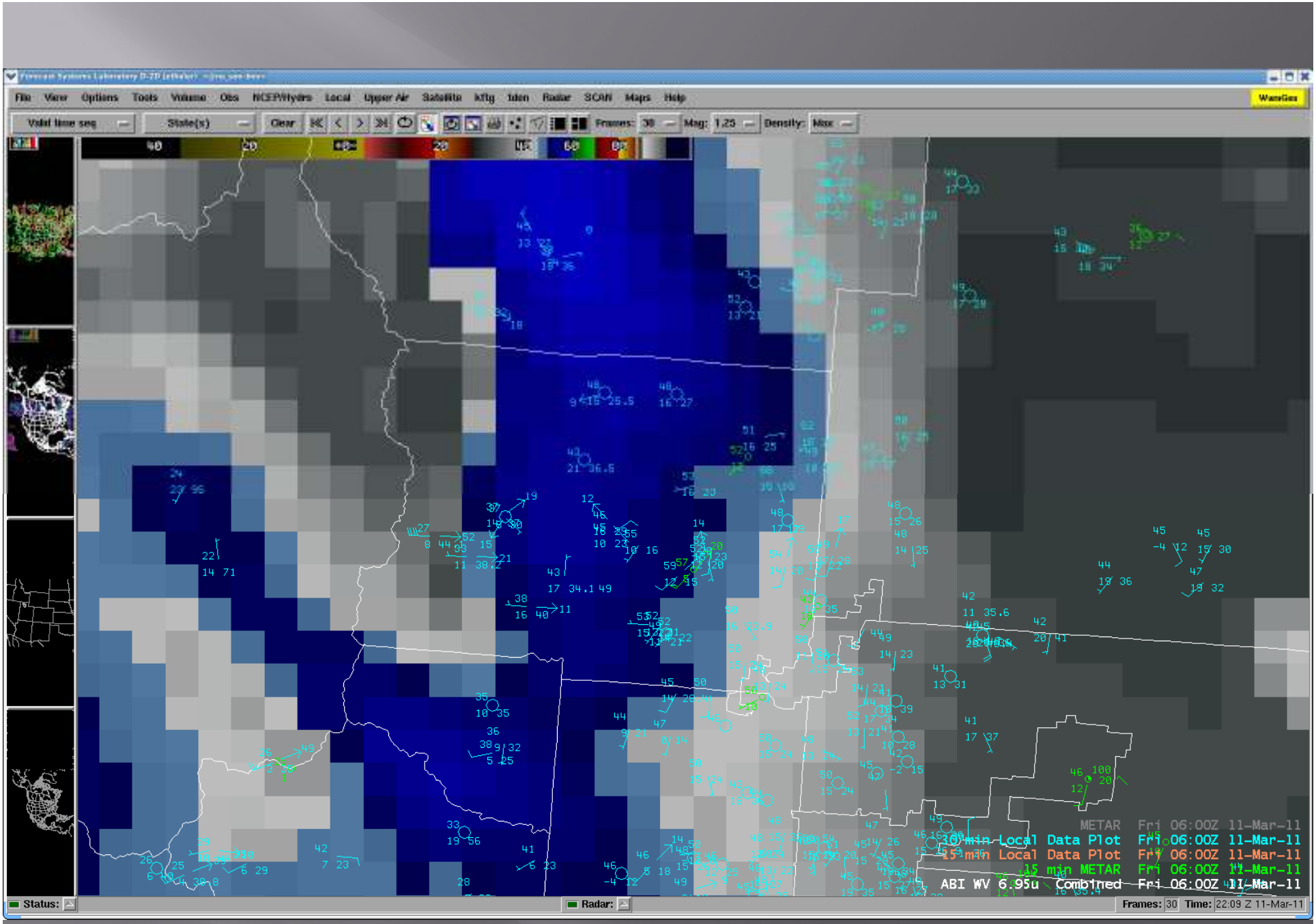
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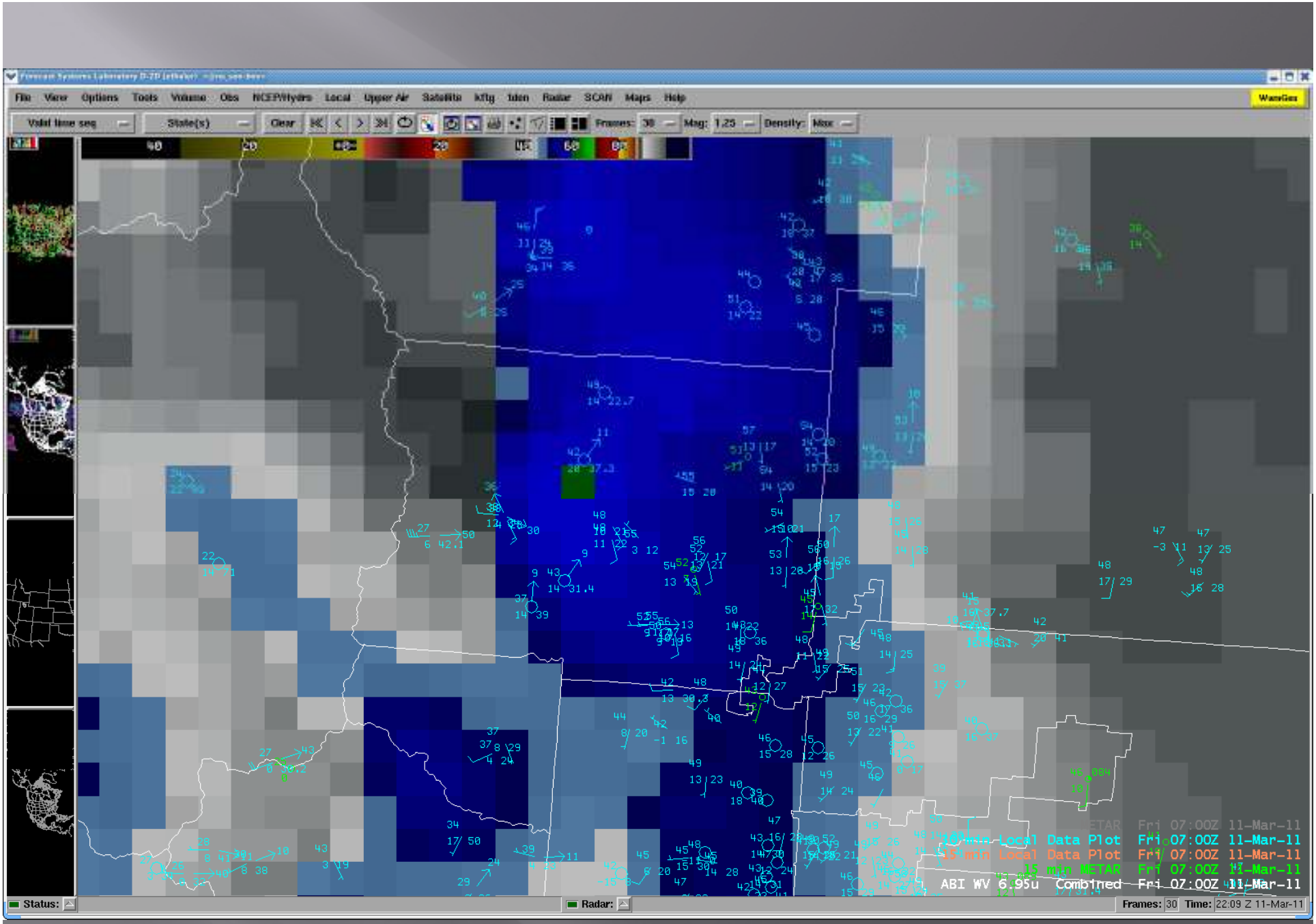
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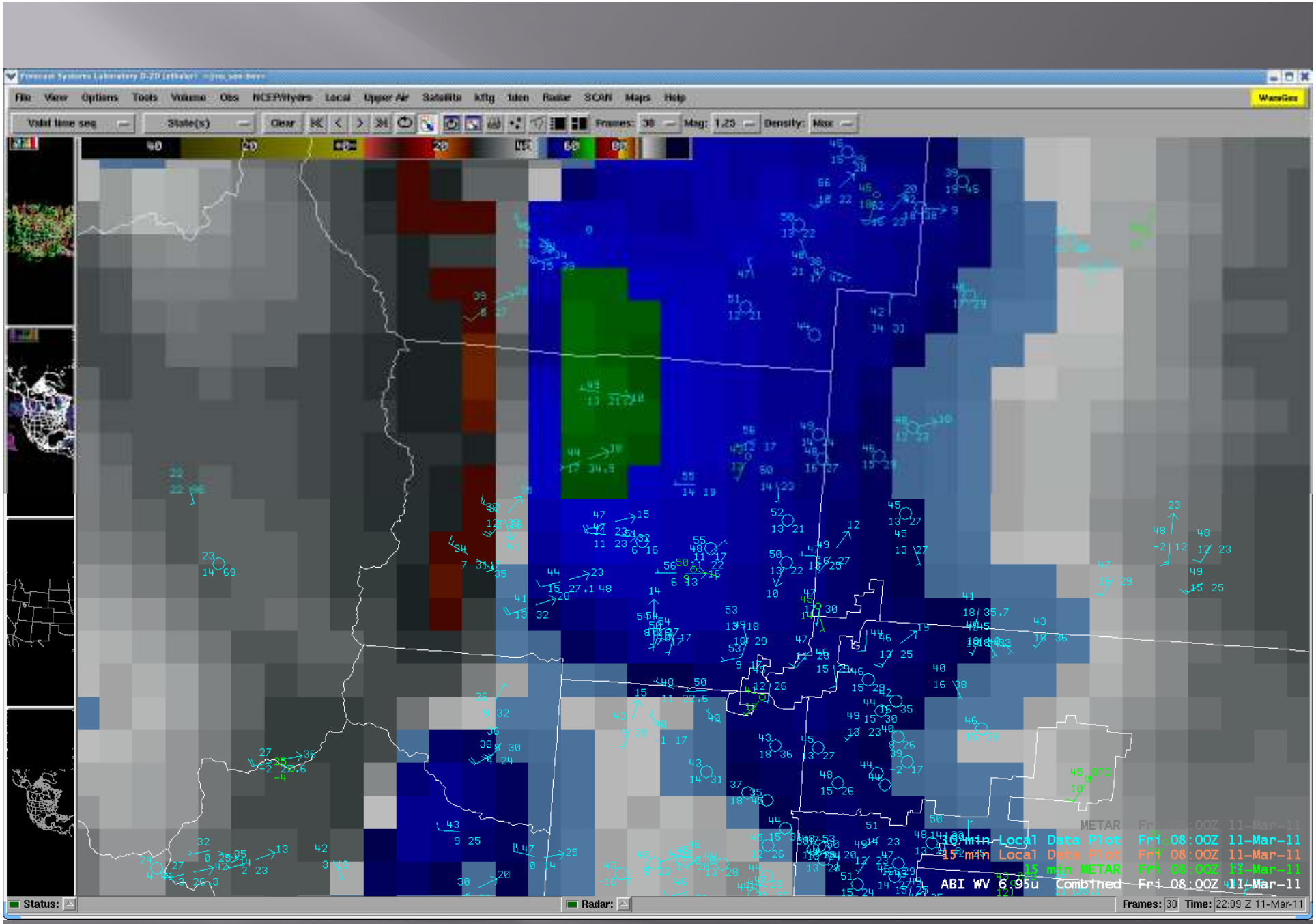
Density: Max
Status:
Radar:
Frames: 30 Time: 22:09 Z 11-Mar-11
Fri 07:00Z 11-Mar-11
Local Data Plot Fri 07:00Z 11-Mar-11
Local Data Plot Fri 07:00Z 11-Mar-11
METAR Fri 07:00Z 11-Mar-11
ABI WV 6.95u Combined Fri 07:00Z 11-Mar-11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Valid time seq
State(s)
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Density: Max
METAR Fri 08:00Z 11-Mar-11
30 min Local Data Plot Fri 08:00Z 11-Mar-11
15 min Local Data Plot Fri 08:00Z 11-Mar-11
15 min METAR Fri 08:00Z 11-Mar-11
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Status:
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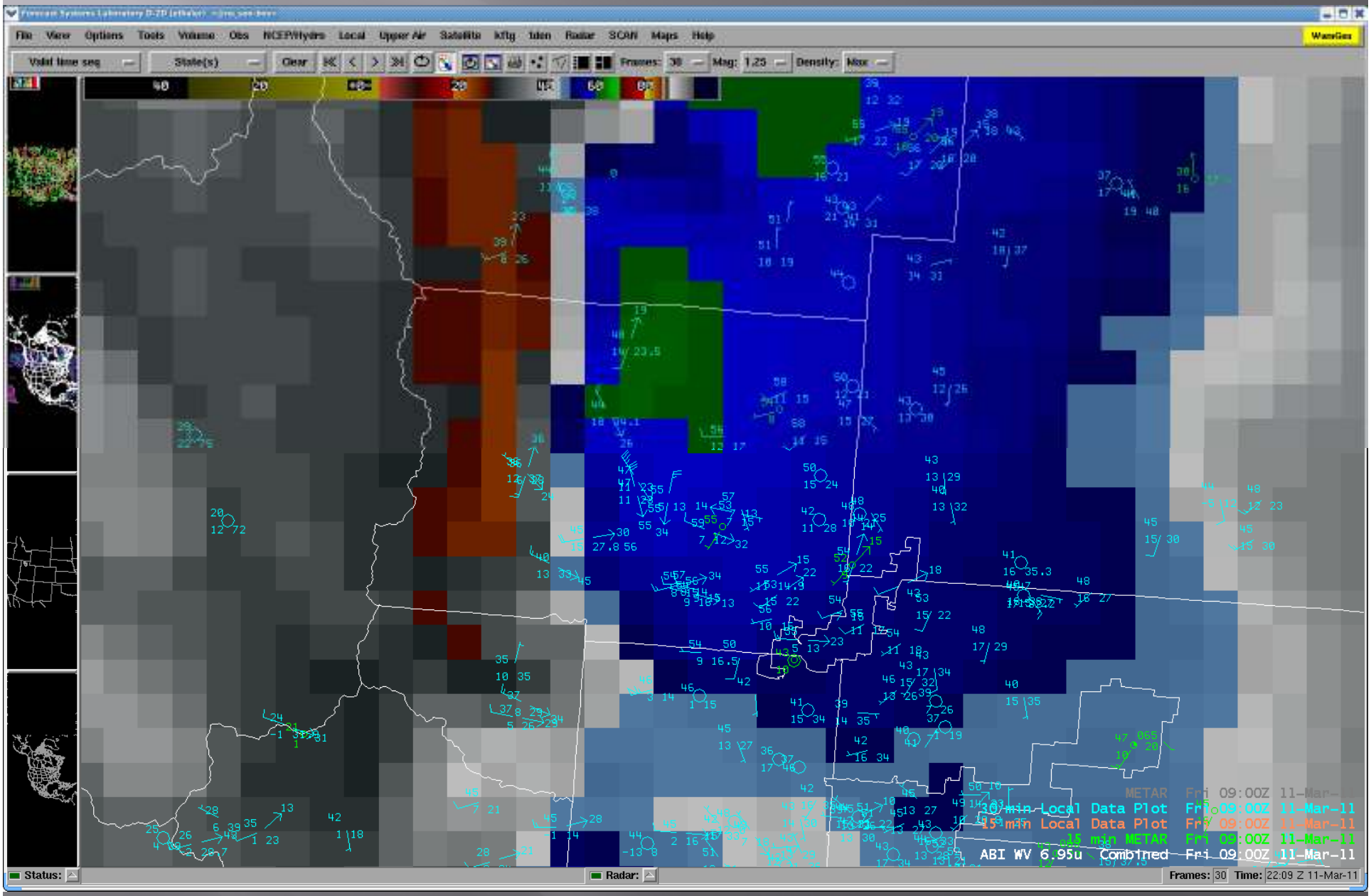
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WarnGen
Valid time seq
State(s)
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Density: Max
METAR Fri 09:00Z 11-Mar-11
30 min Local Data Plot Fri 09:00Z 11-Mar-11
15 min Local Data Plot Fri 09:00Z 11-Mar-11
15 min METAR Fri 09:00Z 11-Mar-11
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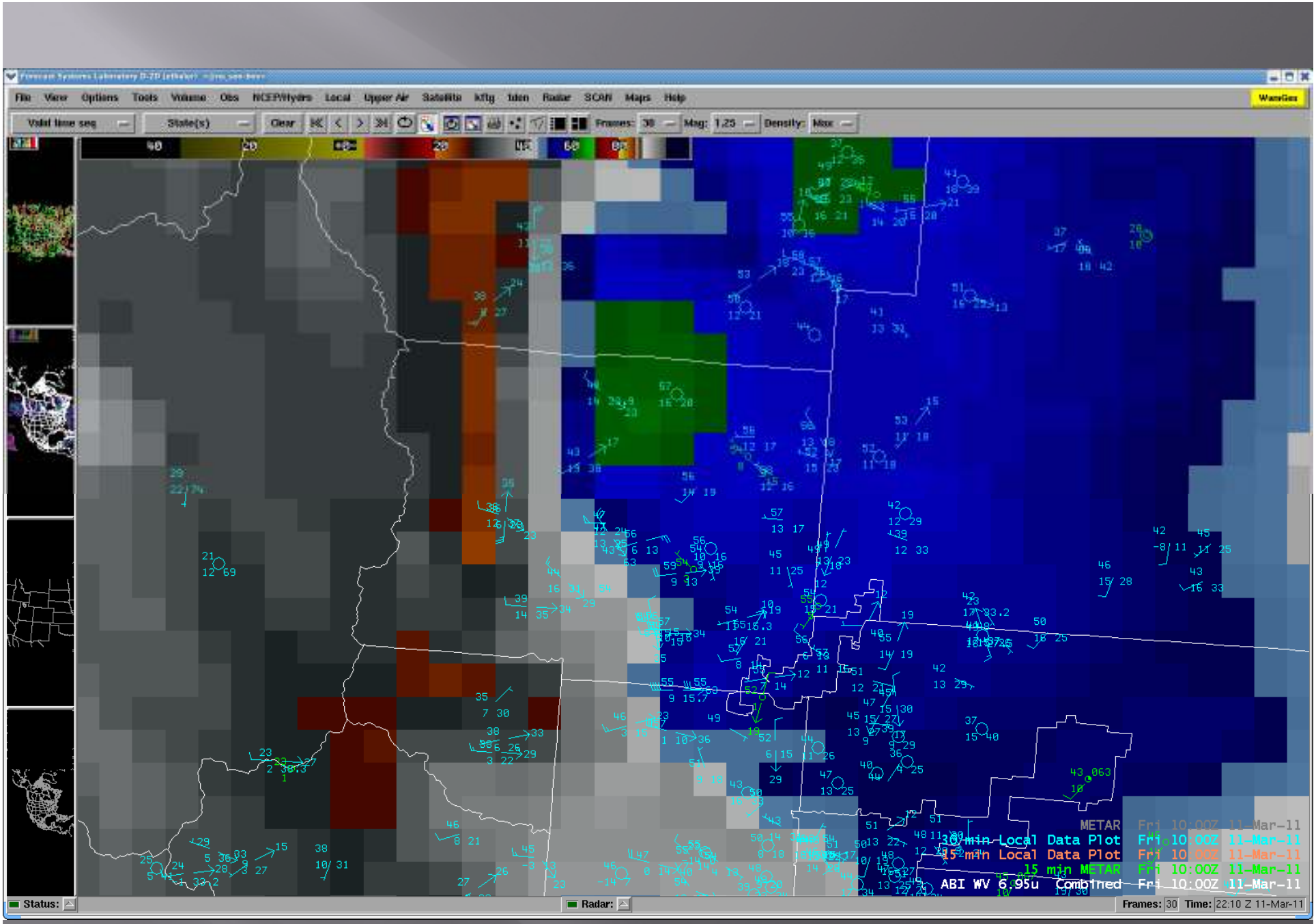
Status:
Radar:
Frames: 30
Time: 22:09 Z 11-Mar-11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State(s)
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Mag: 1.25
Density: Max
METAR Fri 10:00Z 11-Mar-11
30 min Local Data Plot Fri 10:00Z 11-Mar-11
15 min Local Data Plot Fri 10:00Z 11-Mar-11
15 min METAR Fri 10:00Z 11-Mar-11
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Status:
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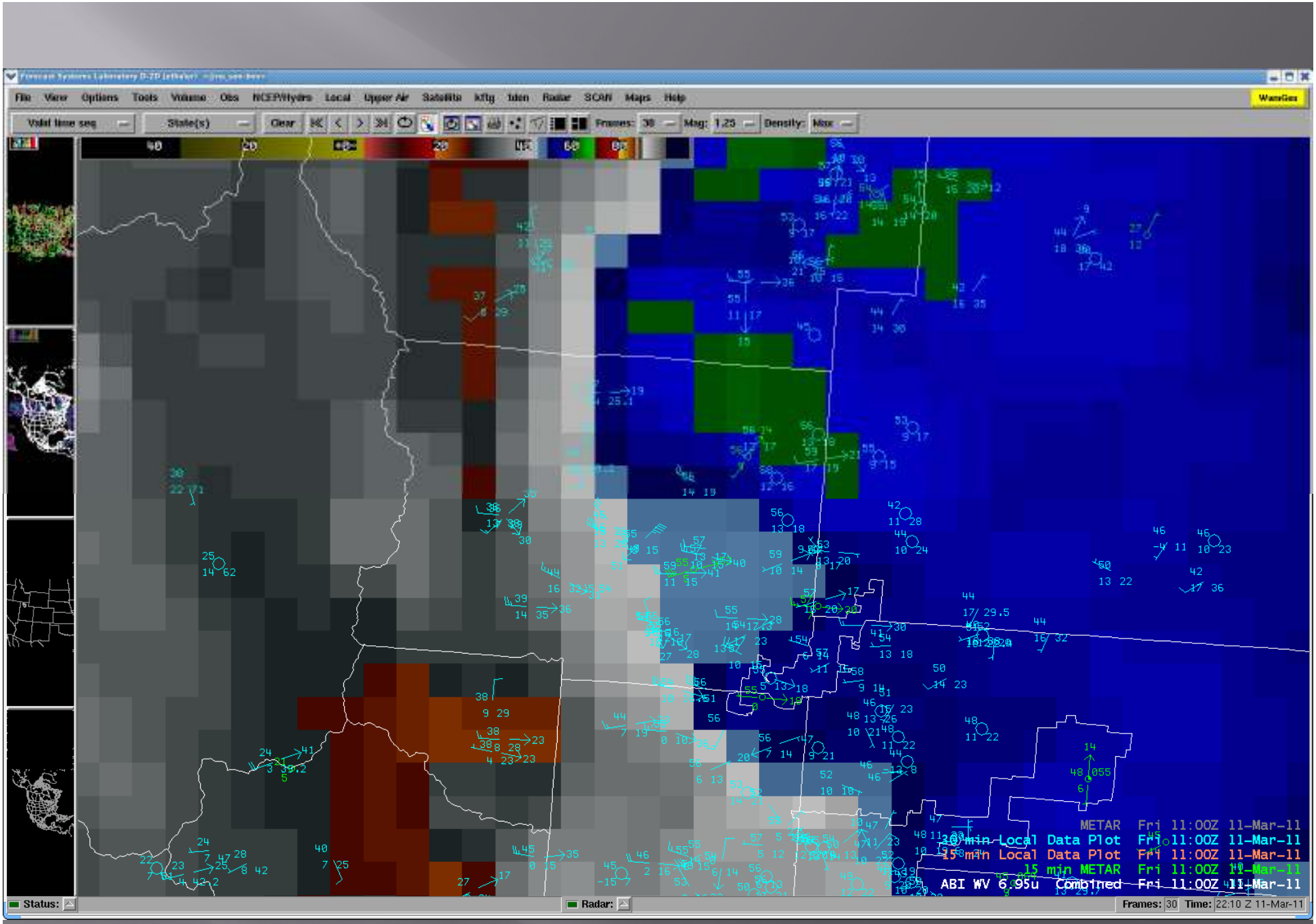
Frames: 30 Time: 22:10 Z 11-Mar-11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Valid time seq
State(s)
Clear
Frames: 30
Mag: 1.25
Density: Max
METAR Fri 11:00Z 11-Mar-11
30 min Local Data Plot Fri 11:00Z 11-Mar-11
15 min Local Data Plot Fri 11:00Z 11-Mar-11
15 min METAR Fri 11:00Z 11-Mar-11
ABI WV 6.95u Combined Fri 11:00Z 11-Mar-11
Status:
Radar:
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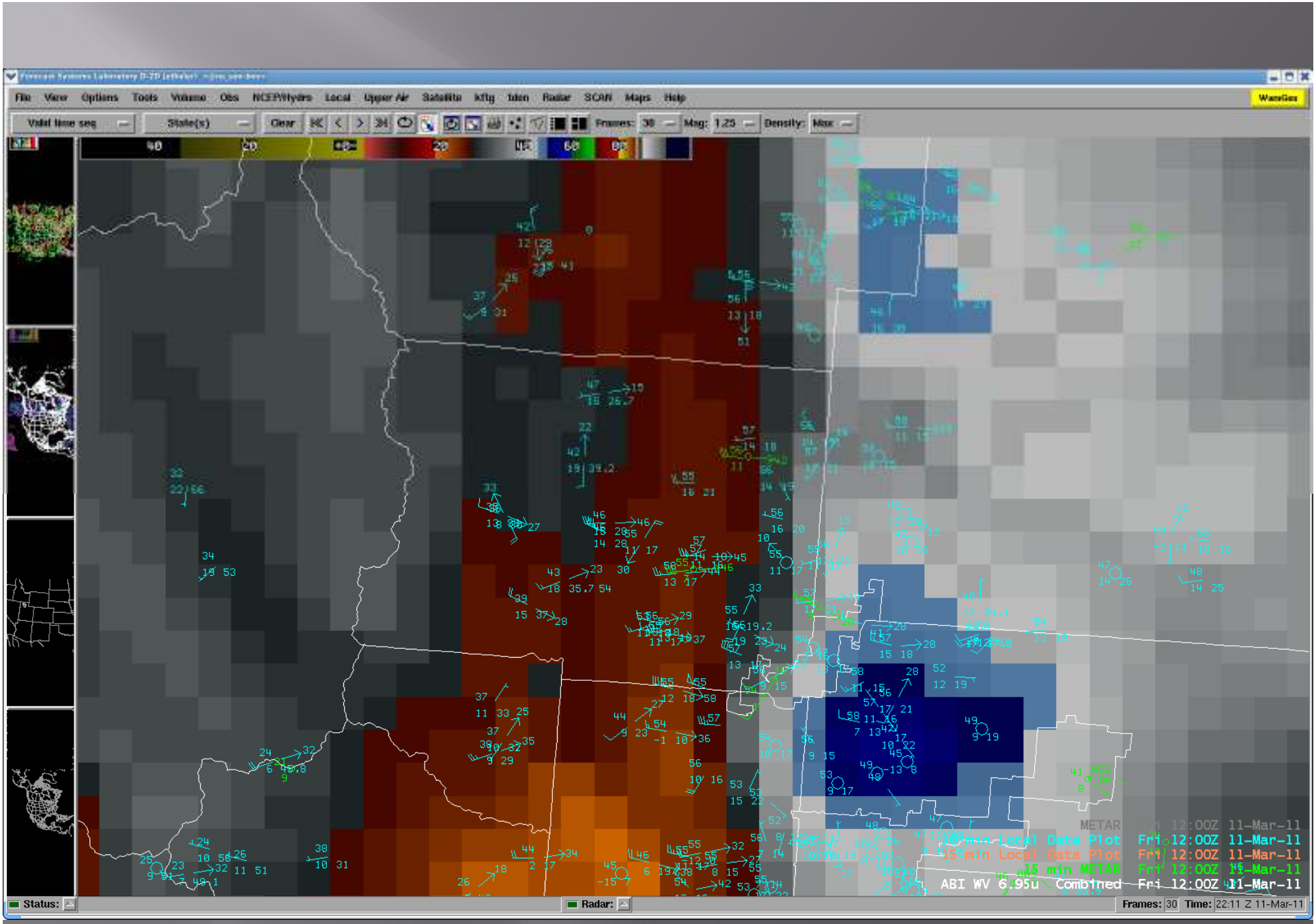
Time: 22:10 Z 11-Mar-11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State(s)
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Density: Max
METAR Fri 12:00Z 11-Mar-11
15 min Local Data Plot Fri 12:00Z 11-Mar-11
15 min Local Data Plot Fri 12:00Z 11-Mar-11
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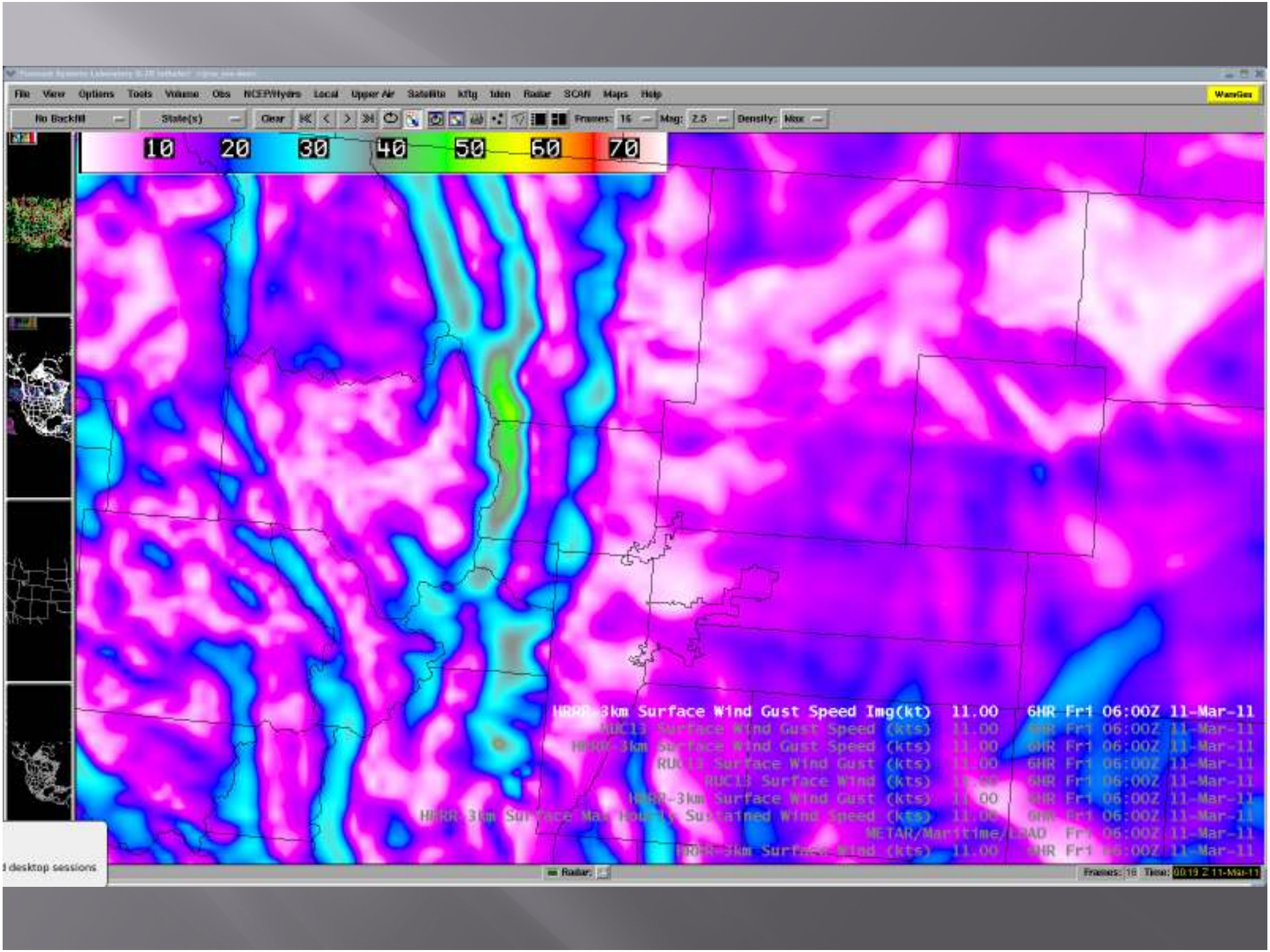
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State(s)
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Density: Max
10 20 30 40 50 60 70
HRRR-3km Surface Wind Gust Speed Img(kt) 11.00 6HR Fri 06:00Z 11-Mar-11
RUC13 Surface Wind Gust Speed (kts) 11.00 6HR Fri 06:00Z 11-Mar-11
HRRR-3km Surface Wind Gust Speed (kts) 11.00 6HR Fri 06:00Z 11-Mar-11
RUC13 Surface Wind Gust (kts) 11.00 6HR Fri 06:00Z 11-Mar-11
RUC13 Surface Wind (kts) 11.00 6HR Fri 06:00Z 11-Mar-11
HRRR-3km Surface Wind Gust (kts) 11.00 6HR Fri 06:00Z 11-Mar-11
HRRR-3km Surface Max Hourly Sustained Wind Speed (kts) 11.00 6HR Fri 06:00Z 11-Mar-11
METAR/Maritime/LSAD Fri 06:00Z 11-Mar-11
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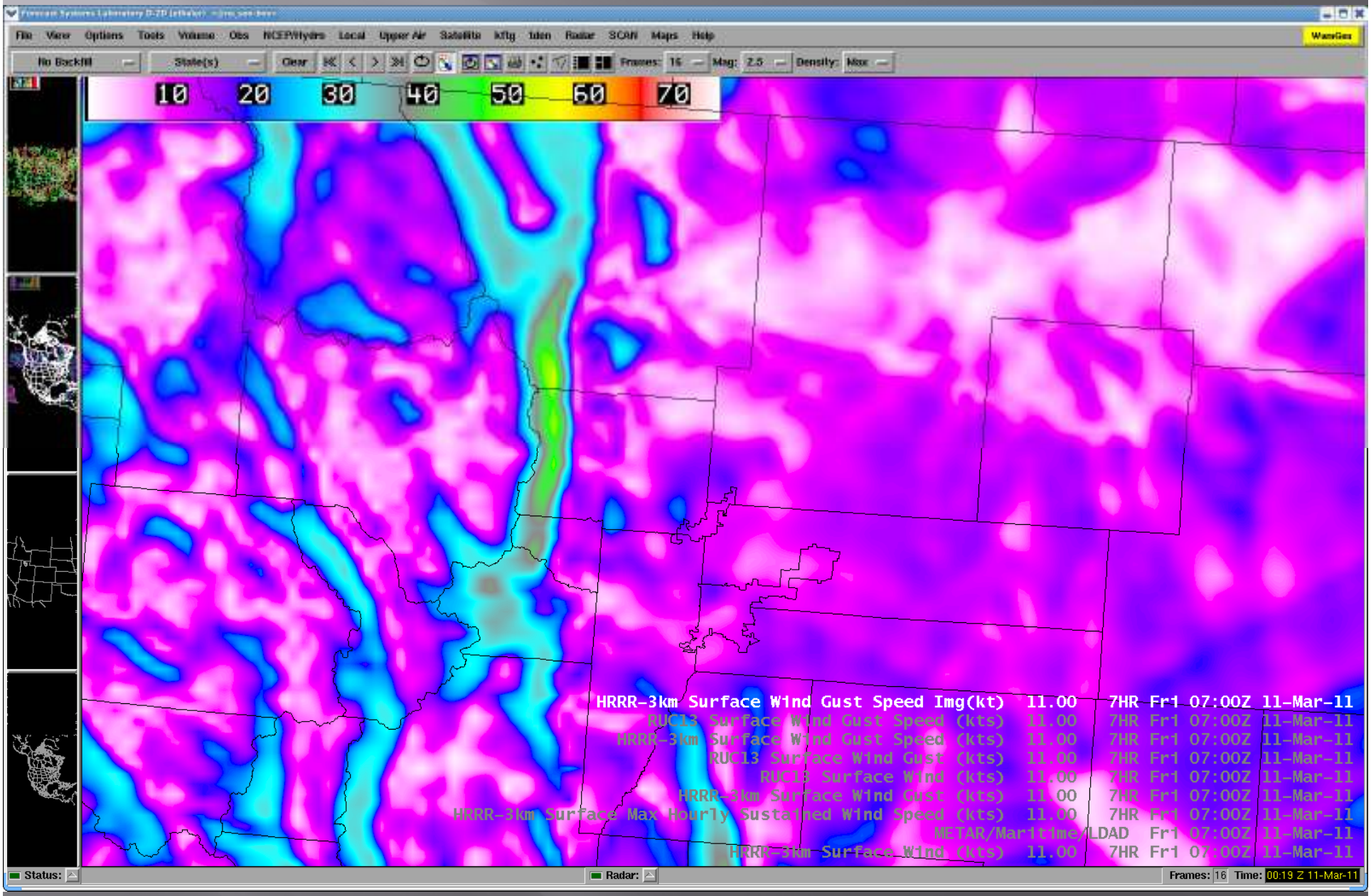
Radar:
Frames: 16 Time: 00:19 Z 11-Mar-11
desktop sessions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WarnGen
No Backfill
State(s)
Clear
Frames: 16
Mag: 2.5
Density: Max
10 20 30 40 50 60 70
HRRR-3km Surface Wind Gust Speed Img(kt) 11.00 7HR Fri 07:00Z 11-Mar-11
RUC13 Surface Wind Gust Speed (kts) 11.00 7HR Fri 07:00Z 11-Mar-11
HRRR-3km Surface Wind Gust Speed (kts) 11.00 7HR Fri 07:00Z 11-Mar-11
RUC13 Surface Wind Gust (kts) 11.00 7HR Fri 07:00Z 11-Mar-11
RUC13 Surface Wind (kts) 11.00 7HR Fri 07:00Z 11-Mar-11
HRRR-3km Surface Wind Gust (kts) 11.00 7HR Fri 07:00Z 11-Mar-11
HRRR-3km Surface Max Hourly Sustained Wind Speed (kts) 11.00 7HR Fri 07:00Z 11-Mar-11
METAR/Maritime/LDAD Fri 07:00Z 11-Mar-11
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Status:
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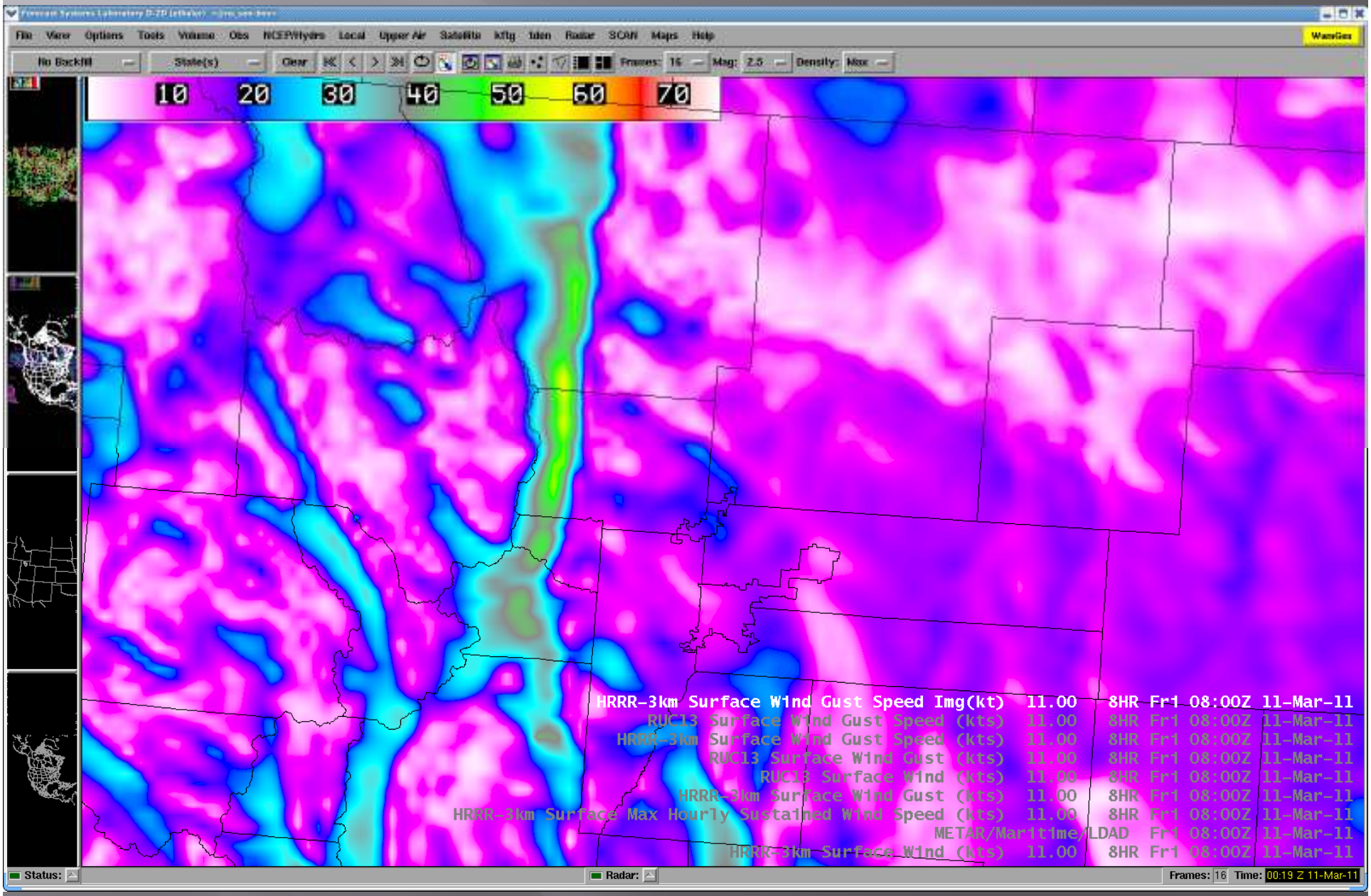
Frames: 16 Time: 00:19 Z 11-Mar-11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WarnGen
No Backfill
State(s)
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Frames: 16
Mag: 2.5
Density: Max
10 20 30 40 50 60 70
HRRR-3km Surface Wind Gust Speed Img(kt) 11.00 8HR Fri 08:00Z 11-Mar-11
RUC13 Surface Wind Gust Speed (kts) 11.00 8HR Fri 08:00Z 11-Mar-11
HRRR-3km Surface Wind Gust Speed (kts) 11.00 8HR Fri 08:00Z 11-Mar-11
RUC13 Surface Wind Gust (kts) 11.00 8HR Fri 08:00Z 11-Mar-11
RUC13 Surface Wind (kts) 11.00 8HR Fri 08:00Z 11-Mar-11
HRRR-3km Surface Wind Gust (kts) 11.00 8HR Fri 08:00Z 11-Mar-11
HRRR-3km Surface Max Hourly Sustained Wind Speed (kts) 11.00 8HR Fri 08:00Z 11-Mar-11
METAR/Maritime/LDAD Fri 08:00Z 11-Mar-11
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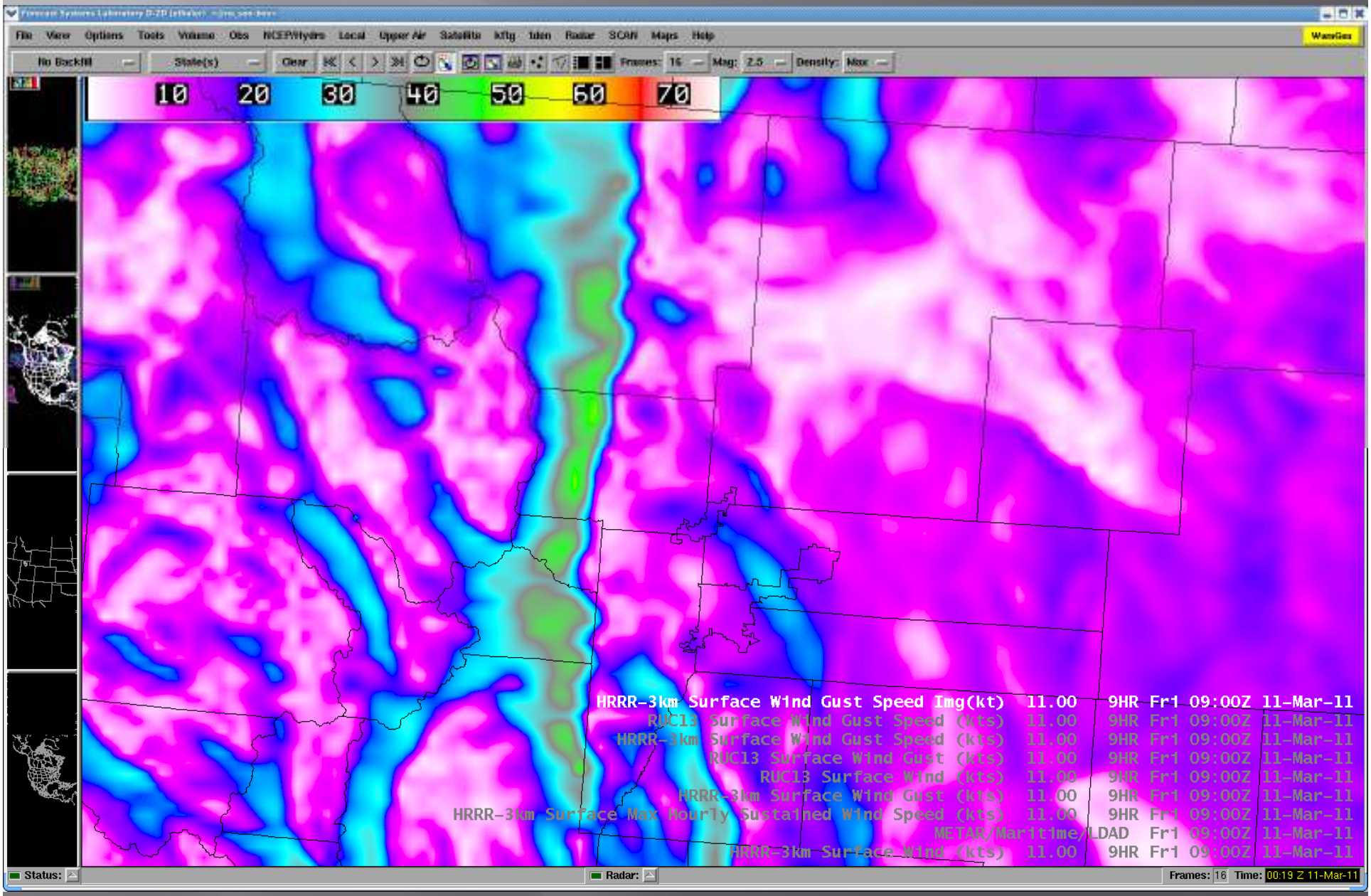
Status:
Radar:
Frames: 16 Time: 00:19 Z 11-Mar-11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WarnGen
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State(s)
Clear
Frames: 16
Mag: 2.5
Density: Max
10 20 30 40 50 60 70
HRRR-3km Surface Wind Gust Speed Img(kt) 11.00 9HR Fri 09:00Z 11-Mar-11
RUC13 Surface Wind Gust Speed (kts) 11.00 9HR Fri 09:00Z 11-Mar-11
HRRR-3km Surface Wind Gust Speed (kts) 11.00 9HR Fri 09:00Z 11-Mar-11
RUC13 Surface Wind Gust (kts) 11.00 9HR Fri 09:00Z 11-Mar-11
RUC13 Surface Wind (kts) 11.00 9HR Fri 09:00Z 11-Mar-11
HRRR-3km Surface Wind Gust (kts) 11.00 9HR Fri 09:00Z 11-Mar-11
HRRR-3km Surface Max Hourly Sustained Wind Speed (kts) 11.00 9HR Fri 09:00Z 11-Mar-11
METAR/Maritime/LDAD Fri 09:00Z 11-Mar-11
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Status:
Radar:
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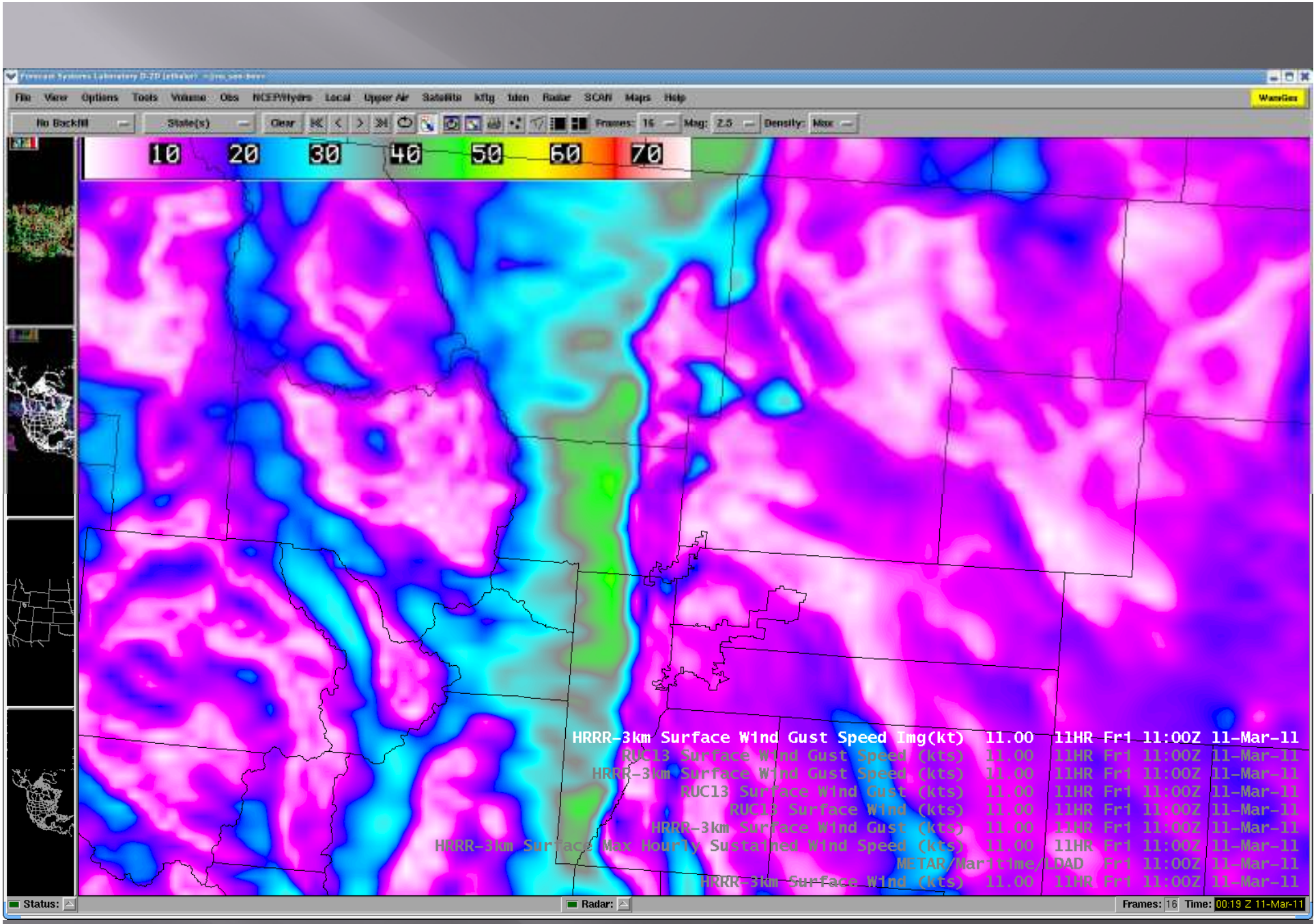
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WarnGen
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State(s)
Clear
Frames: 16
Mag: 2.5
Density: Max
10 20 30 40 50 60 70
HRRR-3km Surface Wind Gust Speed Img(kt) 11.00 11HR Fri 11:00Z 11-Mar-11
RUC13 Surface Wind Gust Speed (kts) 11.00 11HR Fri 11:00Z 11-Mar-11
HRRR-3km Surface Wind Gust Speed (kts) 11.00 11HR Fri 11:00Z 11-Mar-11
RUC13 Surface Wind Gust (kts) 11.00 11HR Fri 11:00Z 11-Mar-11
RUC13 Surface Wind (kts) 11.00 11HR Fri 11:00Z 11-Mar-11
HRRR-3km Surface Wind Gust (kts) 11.00 11HR Fri 11:00Z 11-Mar-11
HRRR-3km Surface Max Hourly Sustained Wind Speed (kts) 11.00 11HR Fri 11:00Z 11-Mar-11
METAR/Maritime/LDAD Fri 11:00Z 11-Mar-11
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Status:
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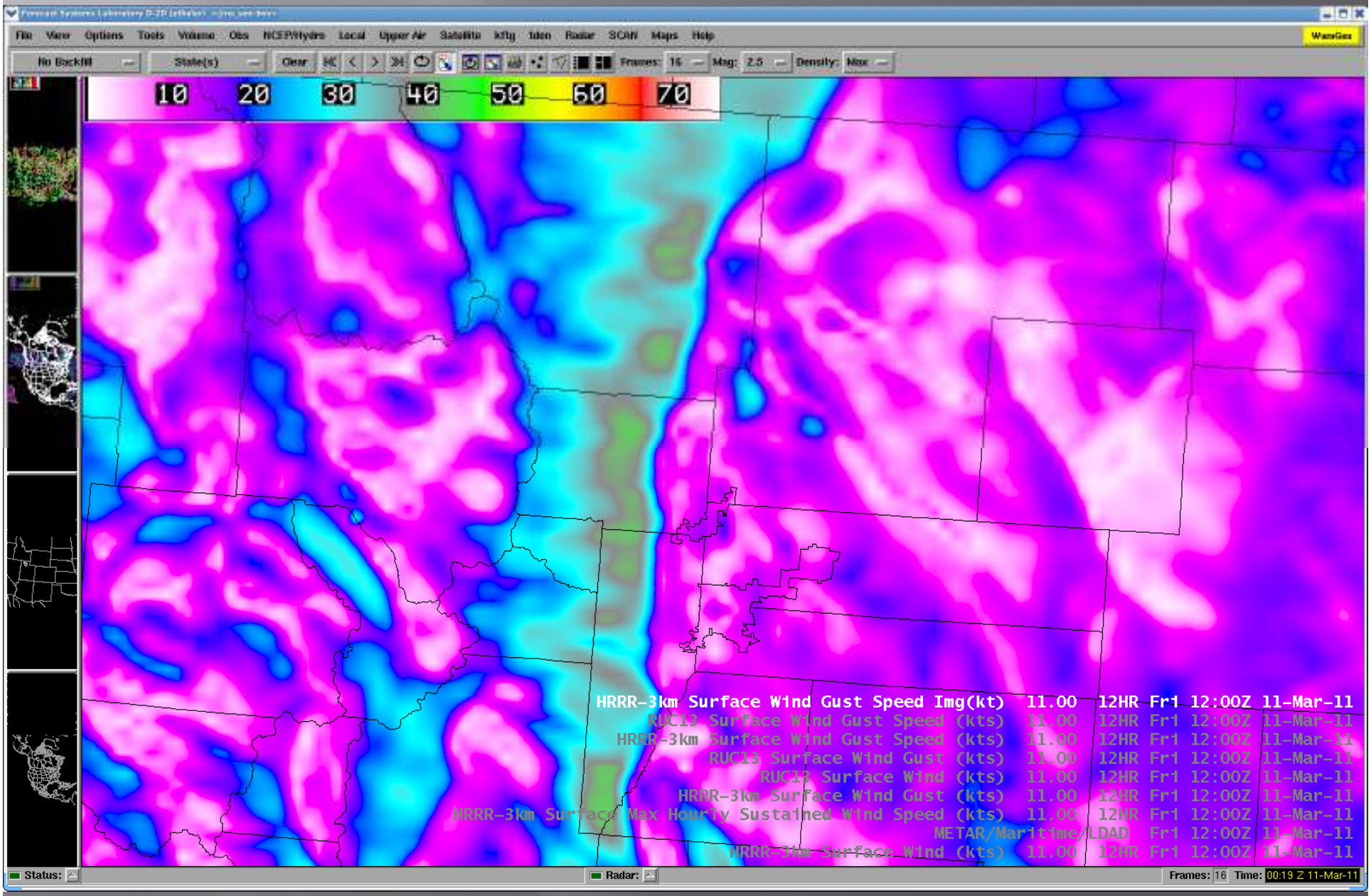
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State(s)
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Density: Max
10 20 30 40 50 60 70
HRRR-3km Surface Wind Gust Speed Img(kt) 11.00 12HR Fri 12:00Z 11-Mar-11
RUC13 Surface Wind Gust Speed (kts) 11.00 12HR Fri 12:00Z 11-Mar-11
HRRR-3km Surface Wind Gust Speed (kts) 11.00 12HR Fri 12:00Z 11-Mar-11
RUC13 Surface Wind Gust (kts) 11.00 12HR Fri 12:00Z 11-Mar-11
RUC13 Surface Wind (kts) 11.00 12HR Fri 12:00Z 11-Mar-11
HRRR-3km Surface Wind Gust (kts) 11.00 12HR Fri 12:00Z 11-Mar-11
HRRR-3km Surface Max Hourly Sustained Wind Speed (kts) 11.00 12HR Fri 12:00Z 11-Mar-11
METAR/Maritime/LDAD Fri 12:00Z 11-Mar-11
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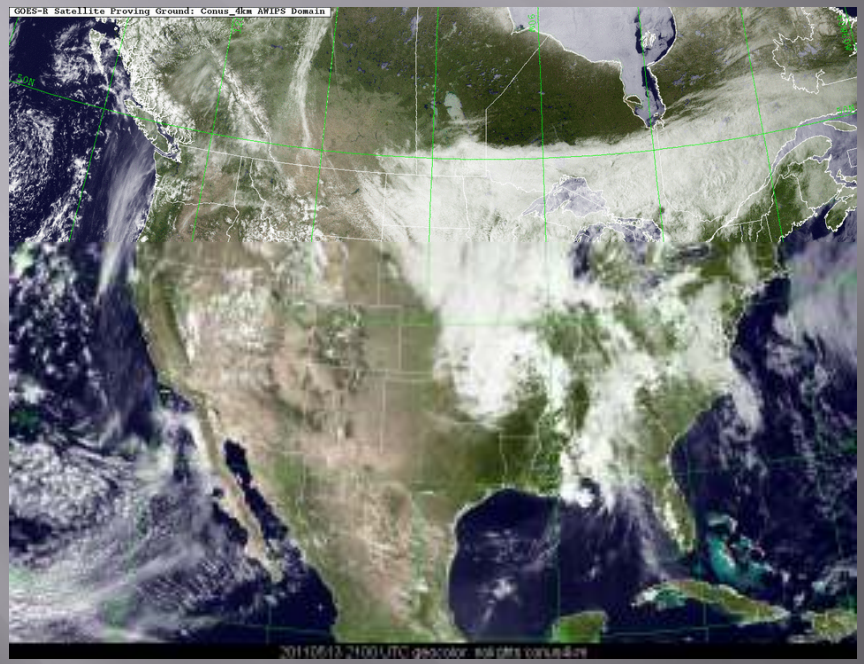
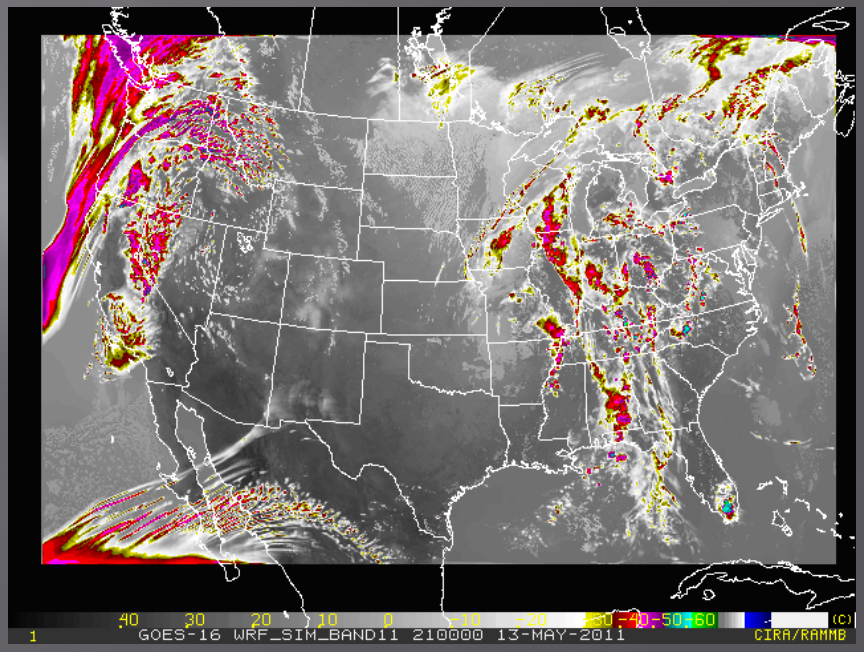
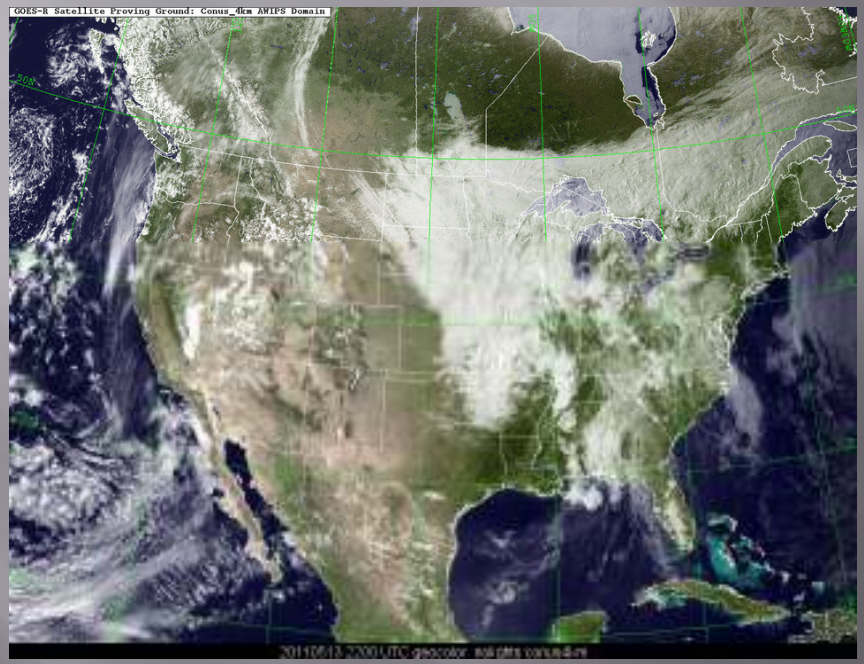
Status:
Radar:
Frames: 16 Time: 00:19 Z 11-Mar-11

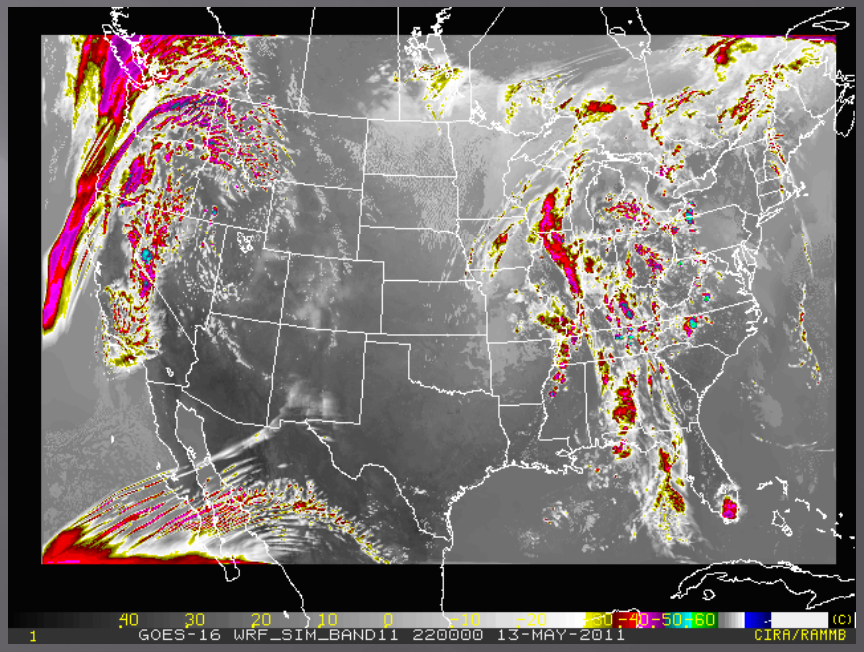
2100 UTC 13 May 2011





2200 UTC 13 May 2011





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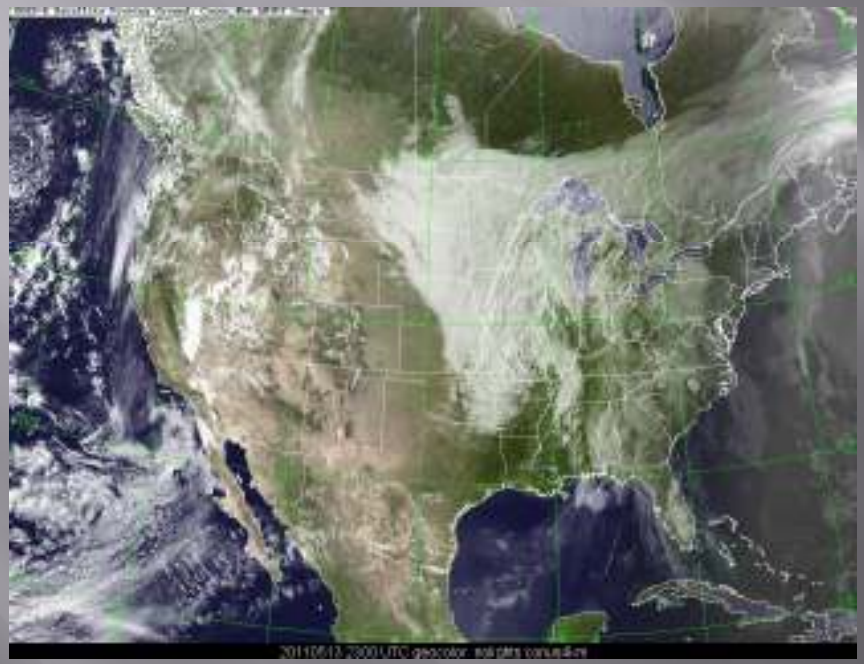

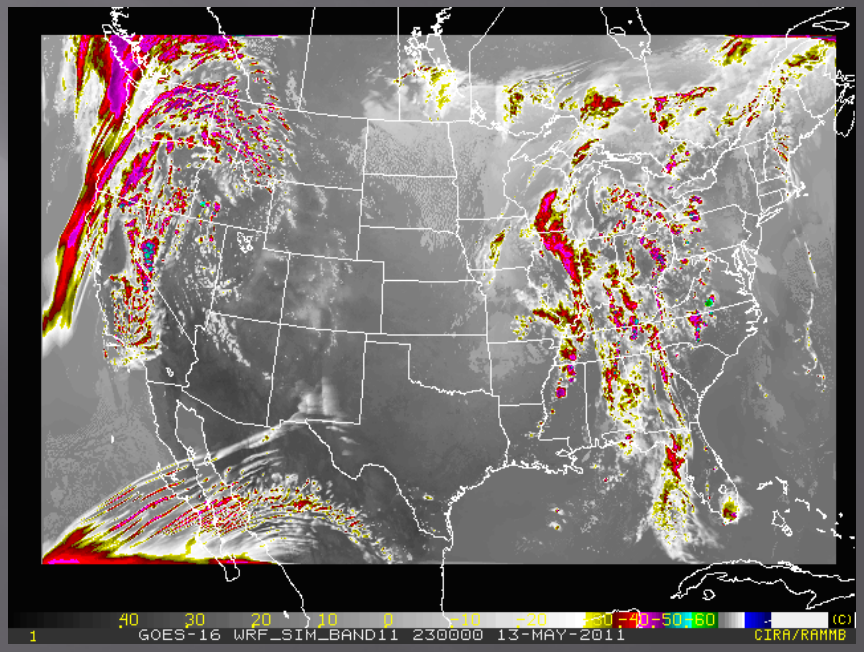

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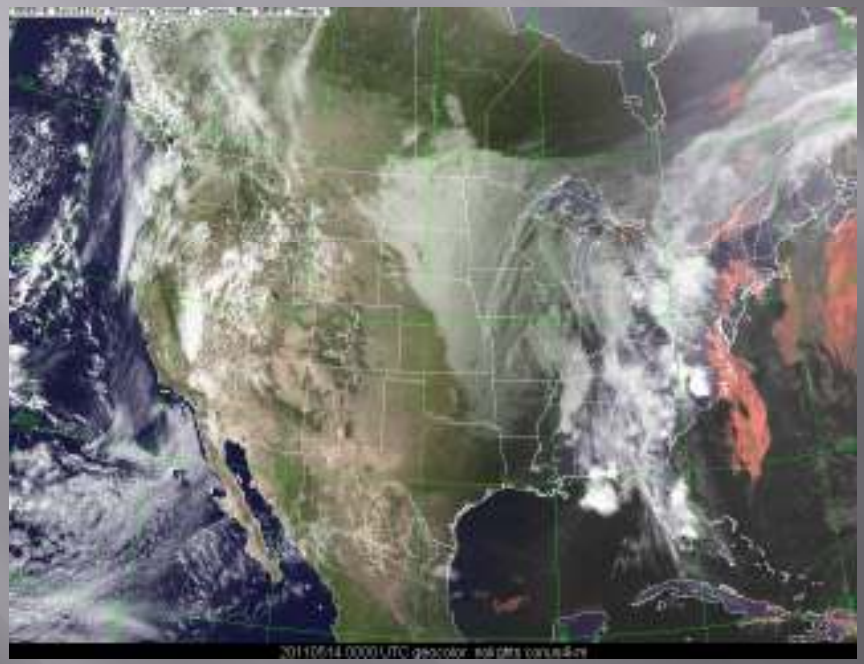

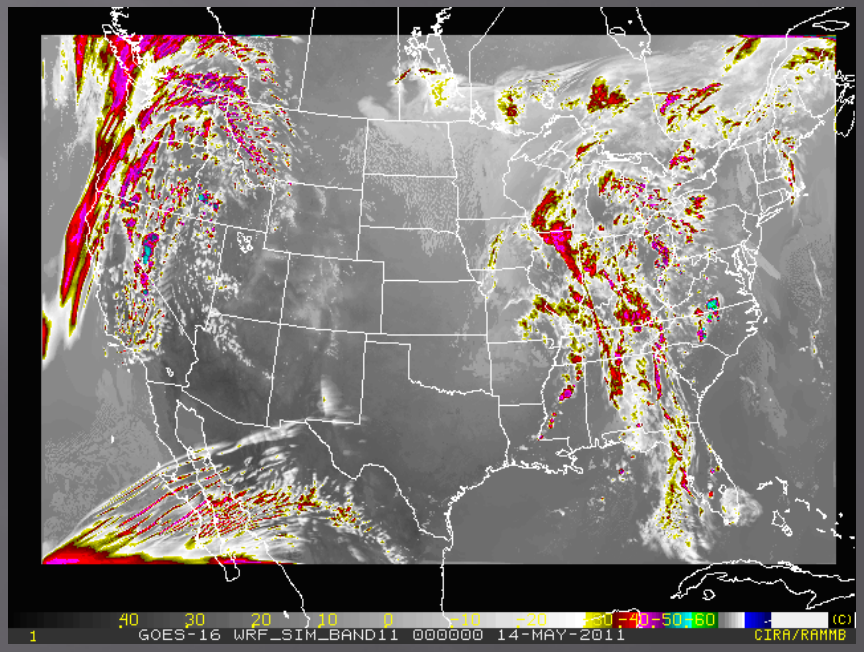

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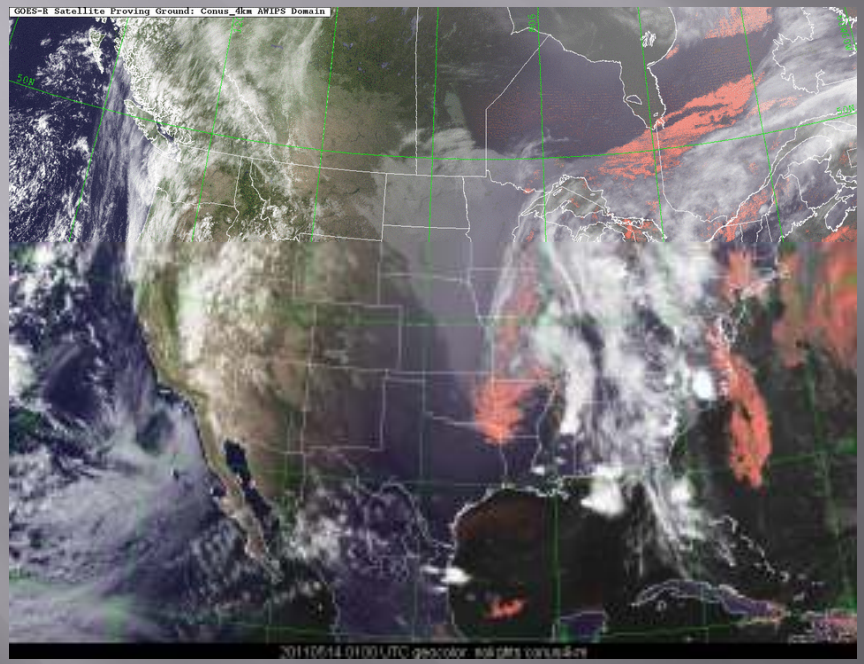

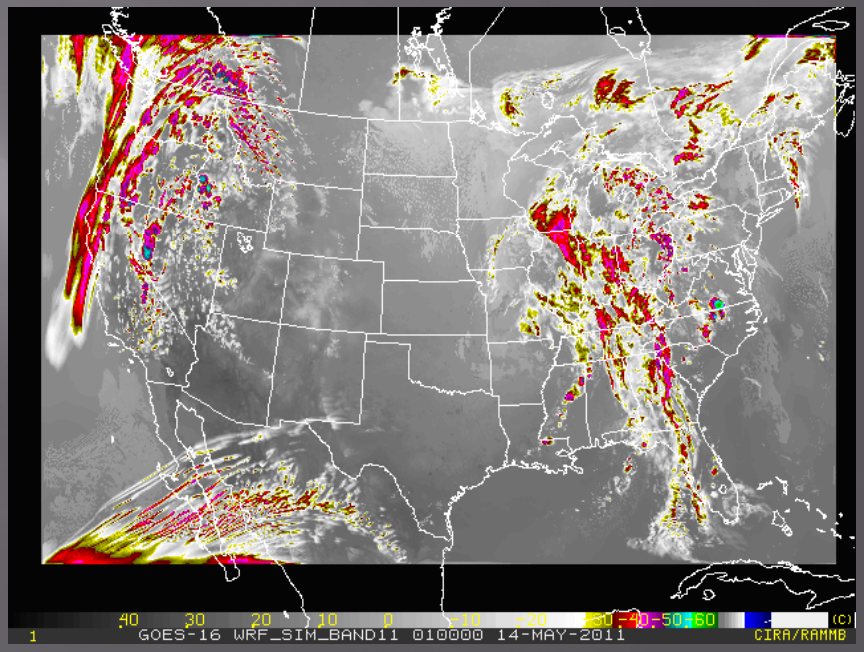

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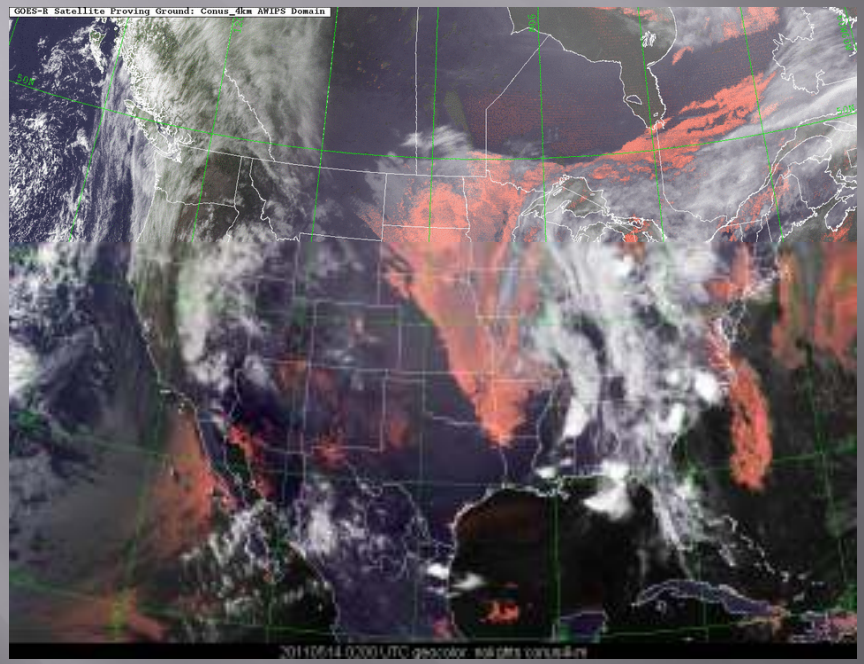

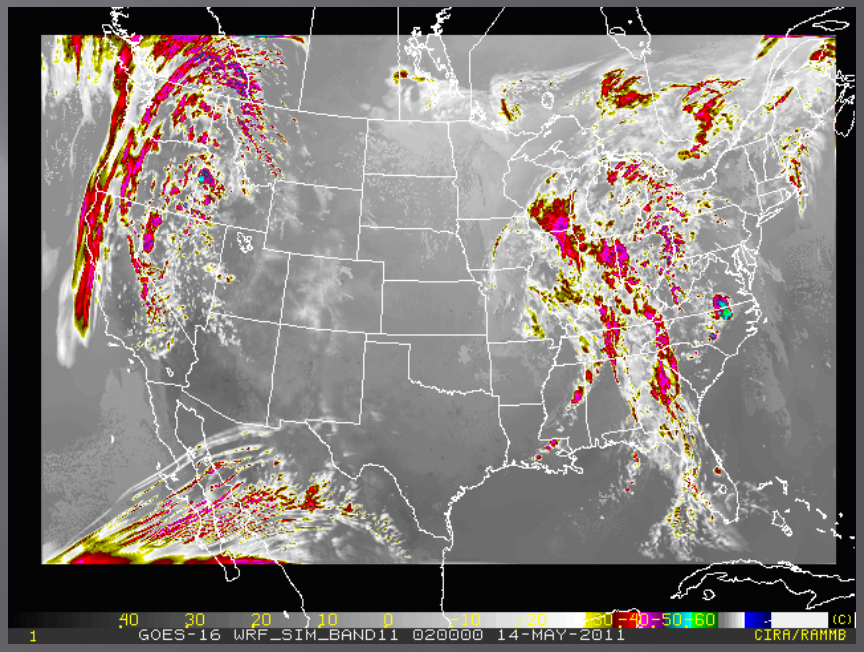

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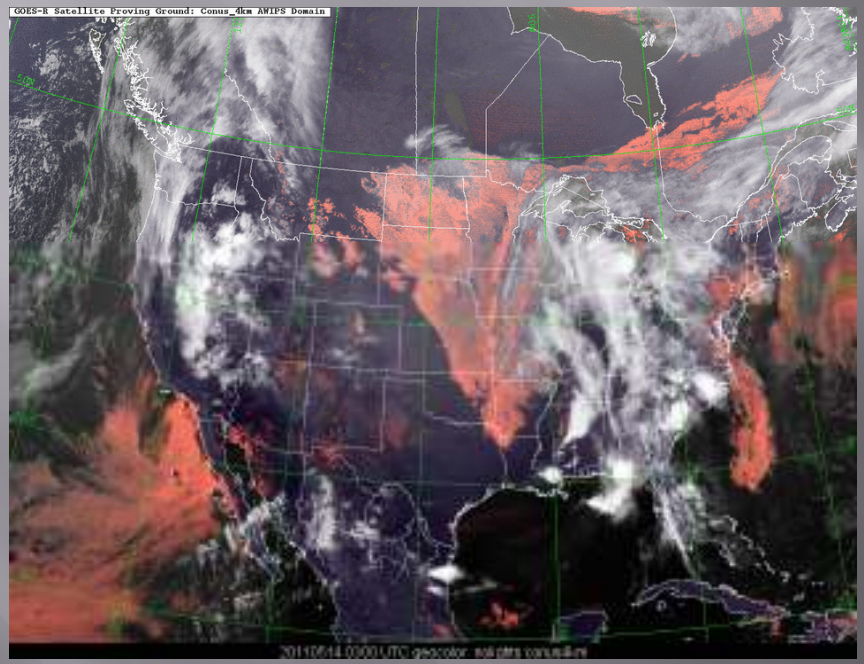

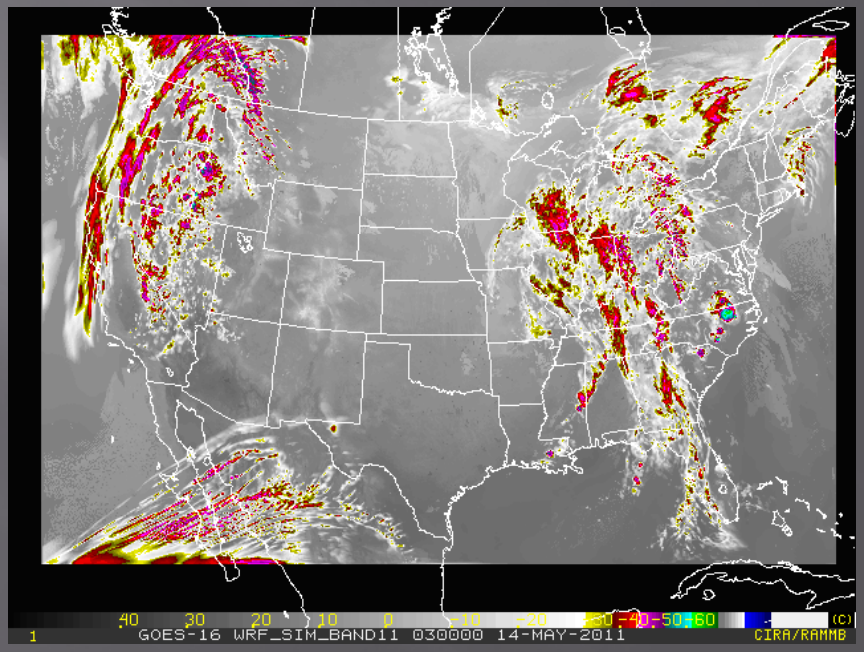

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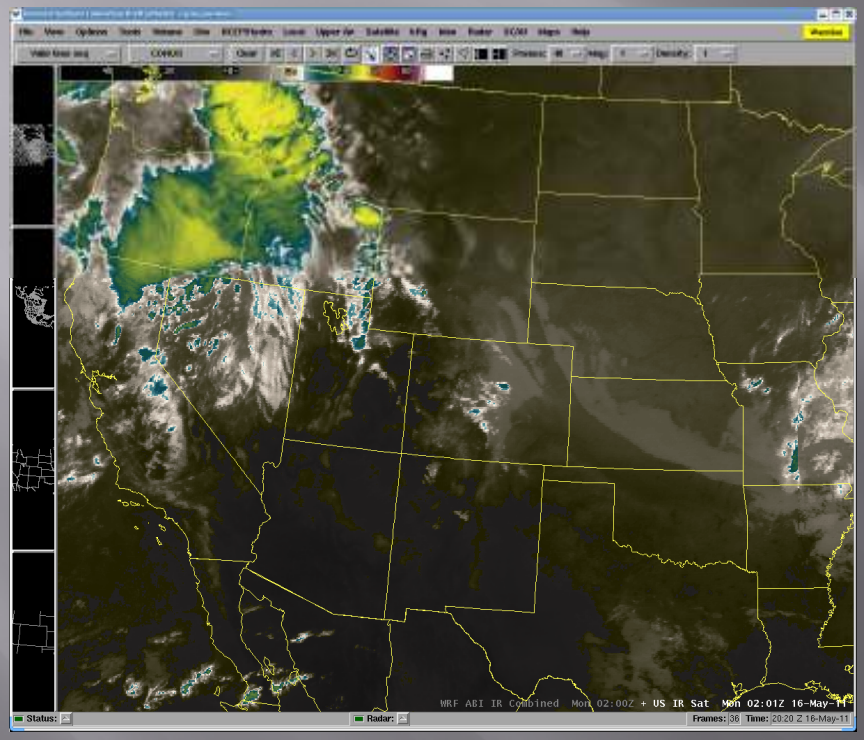

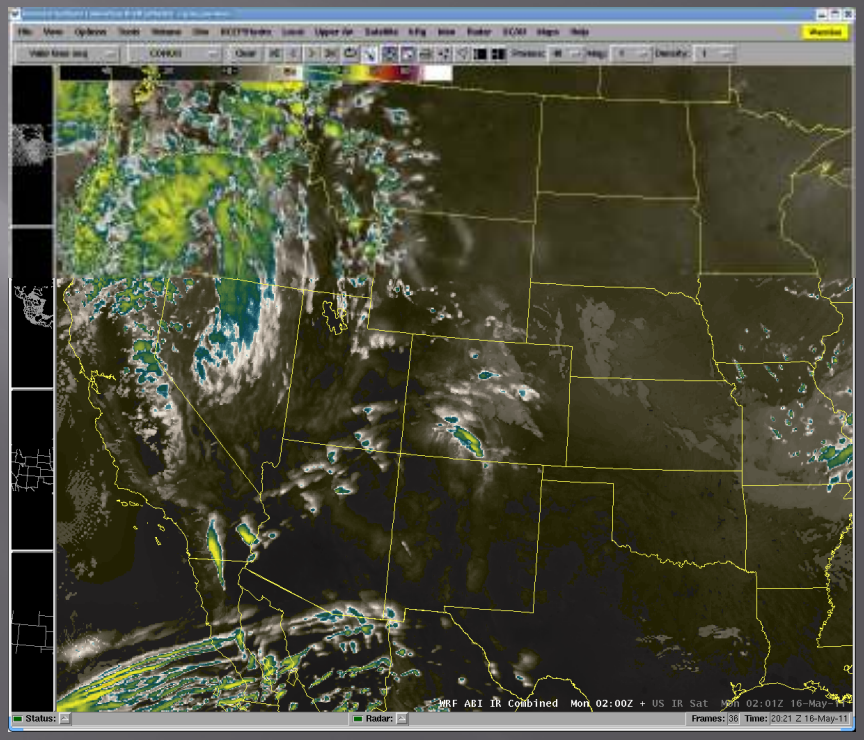

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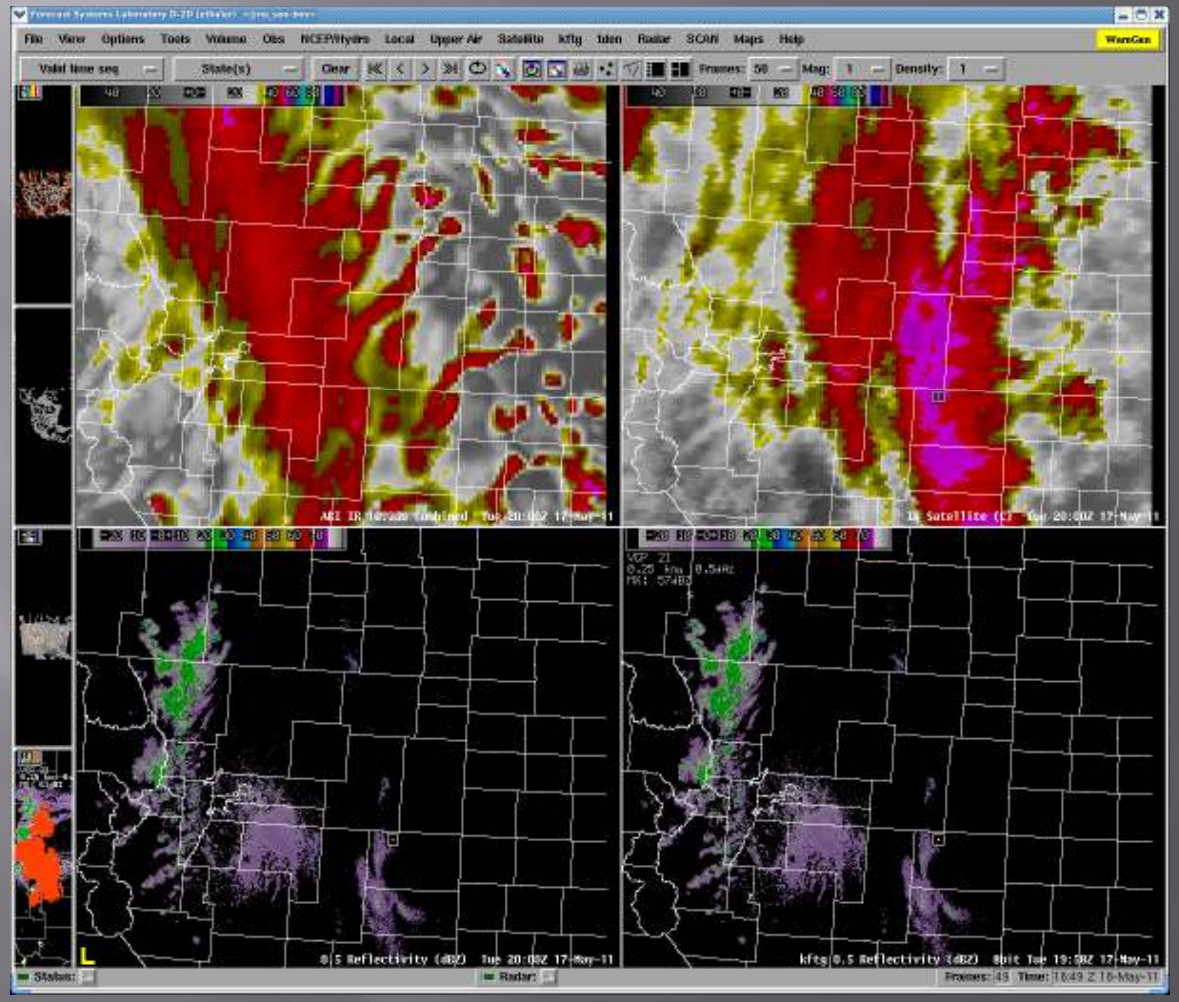

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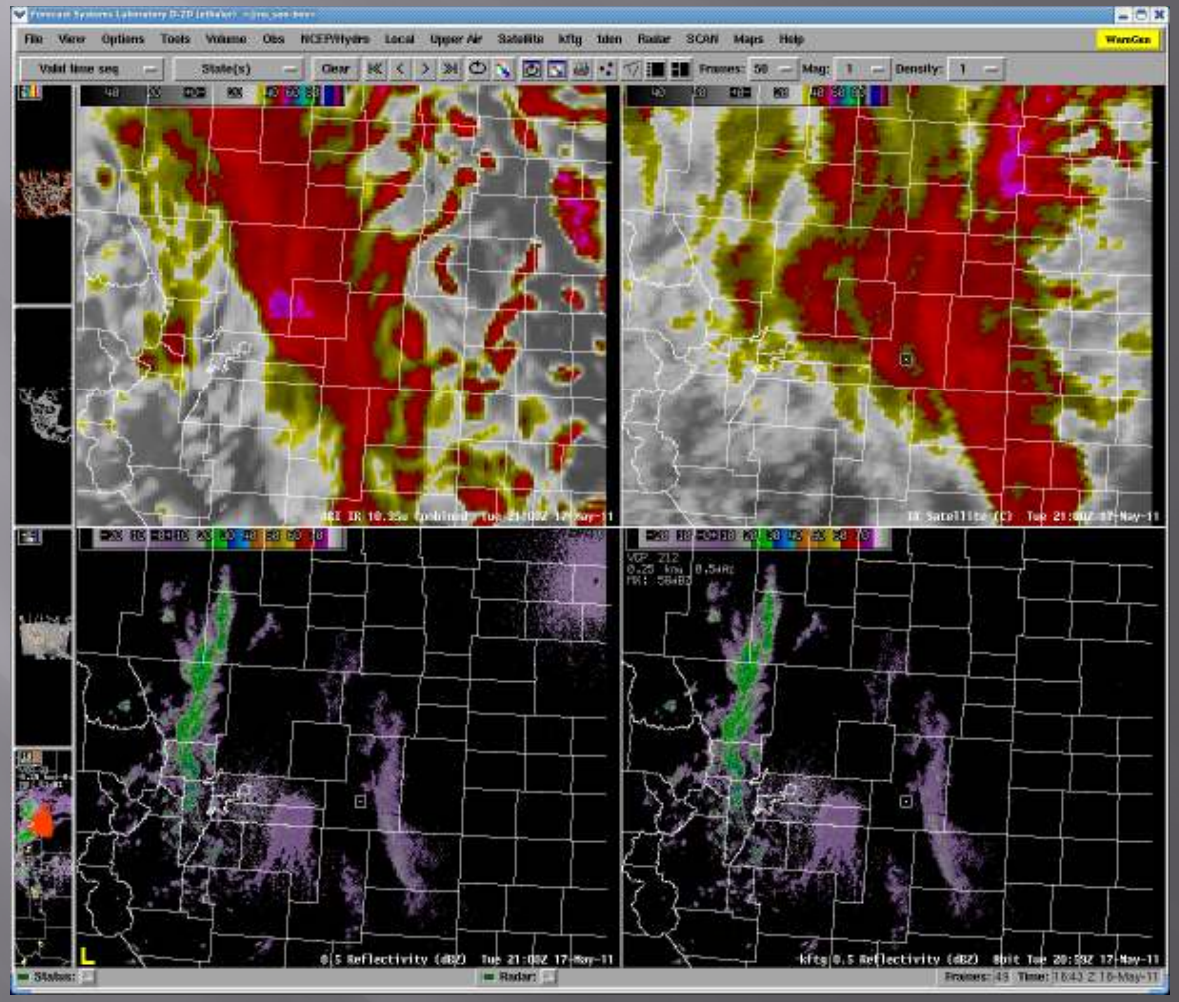

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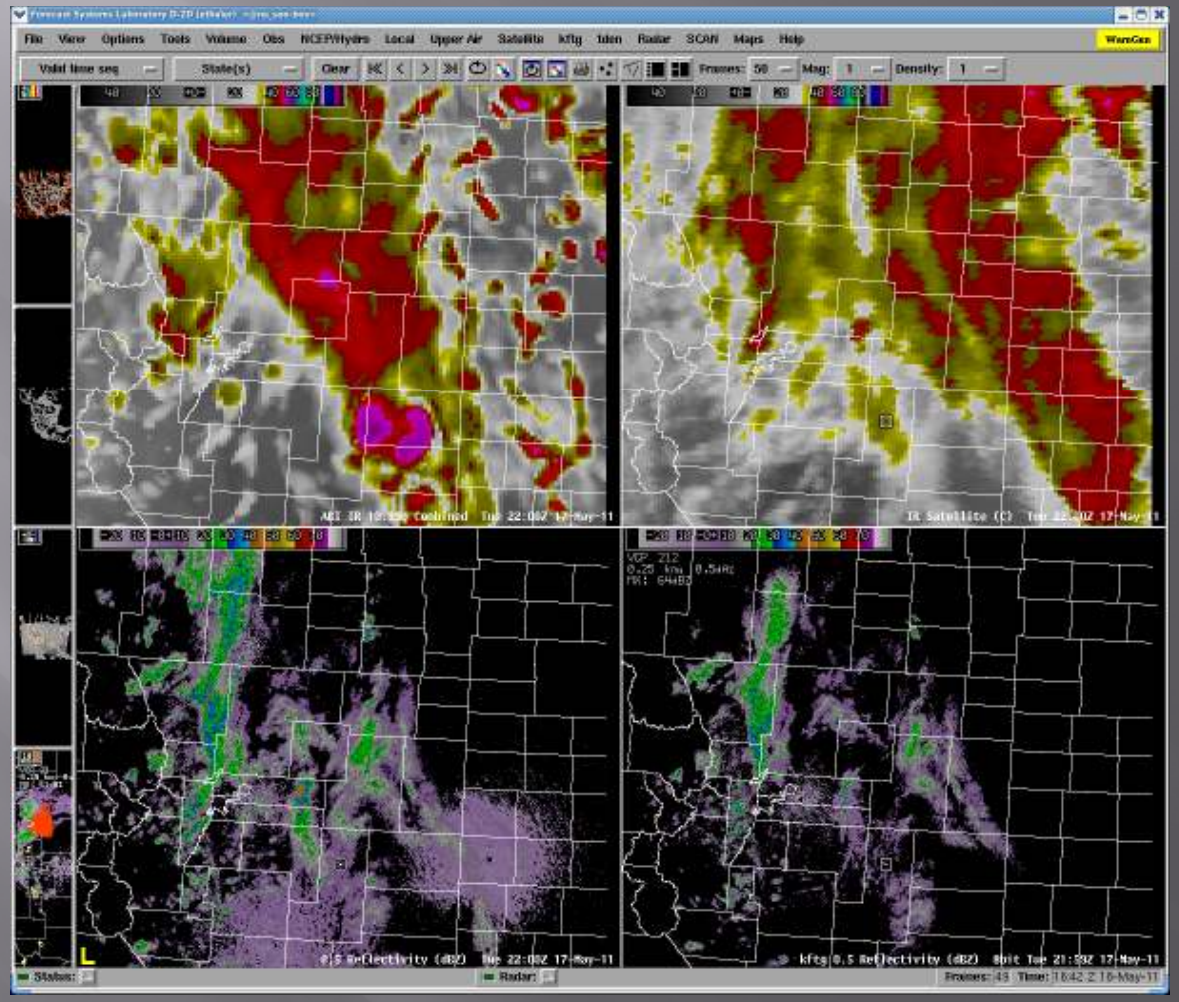

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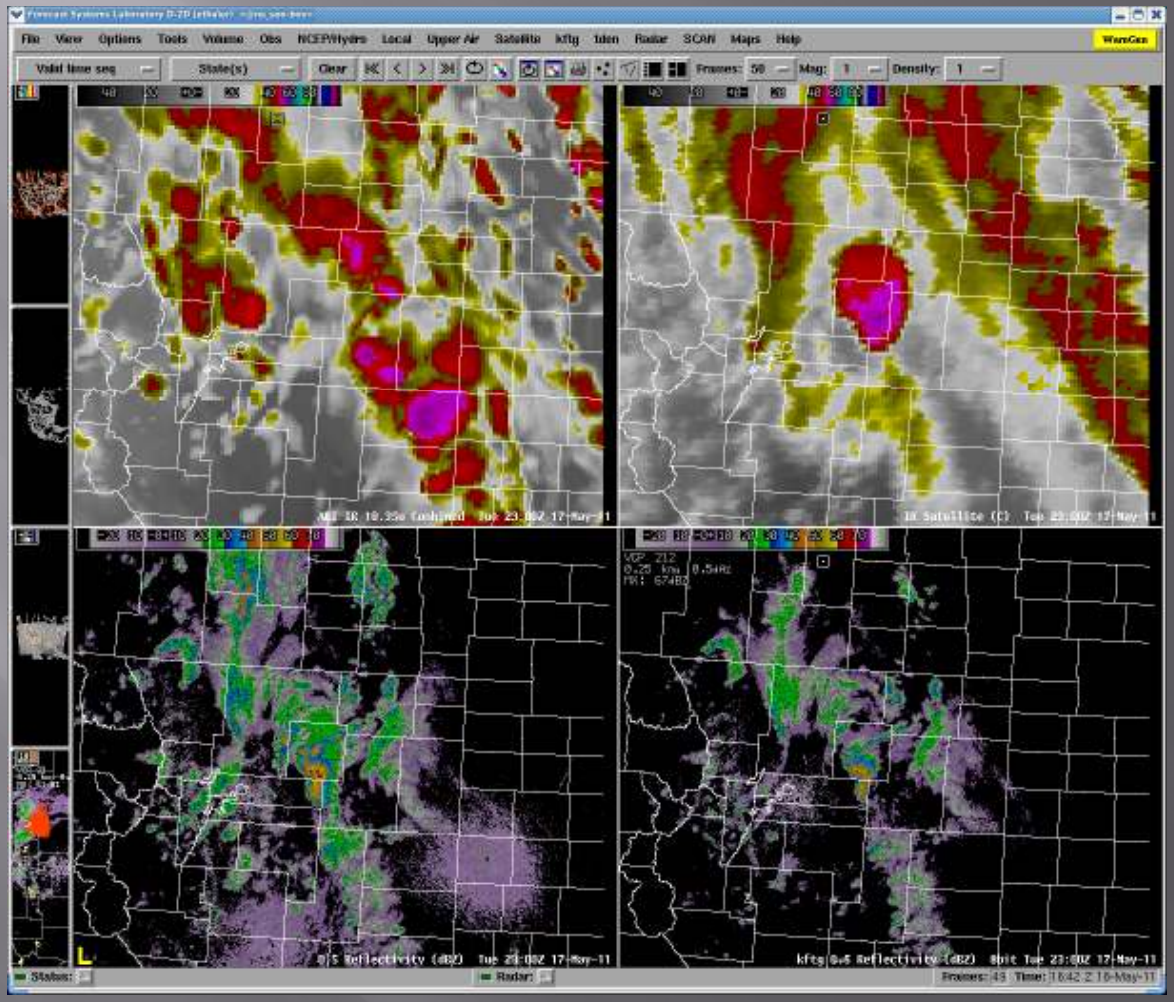

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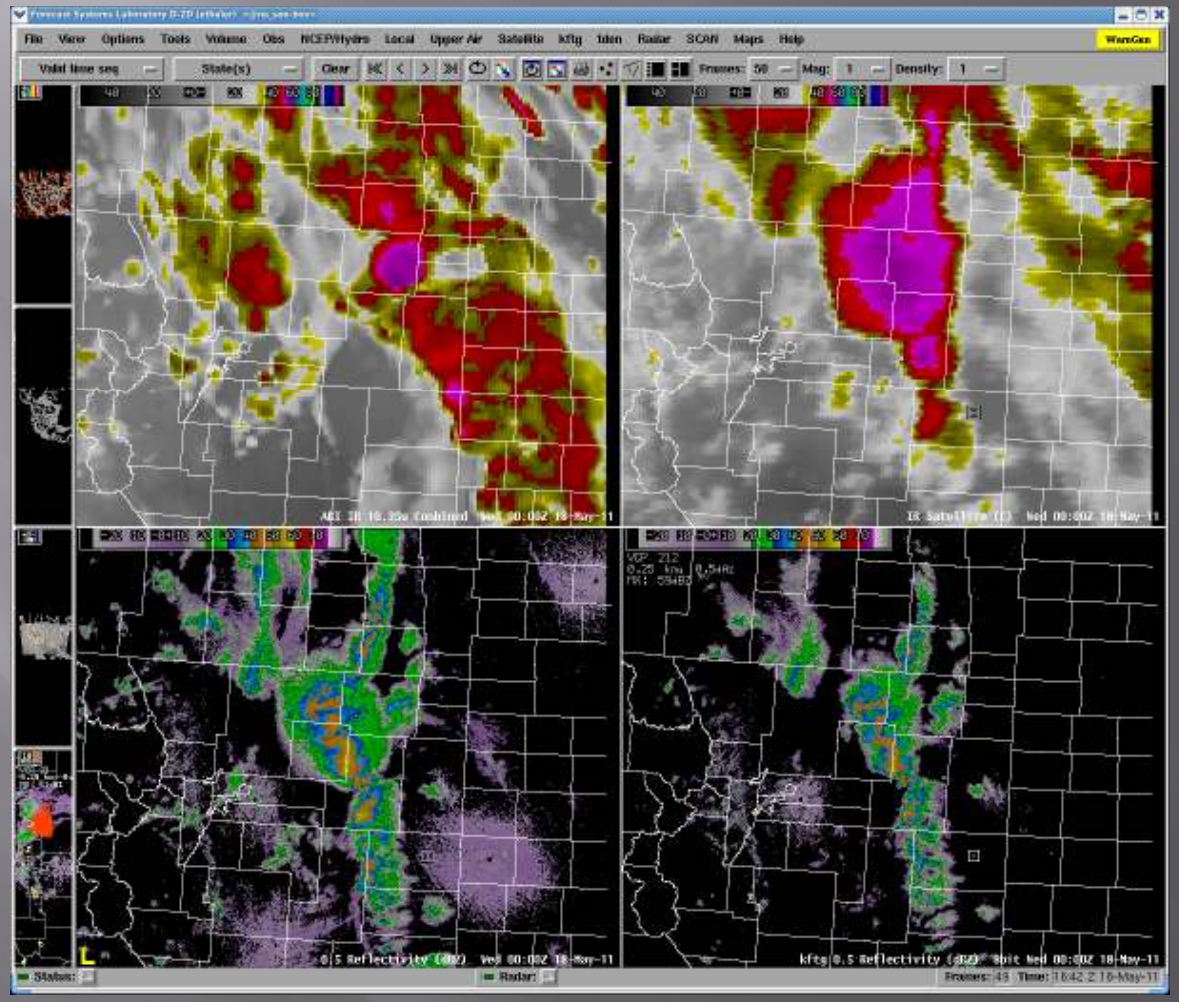

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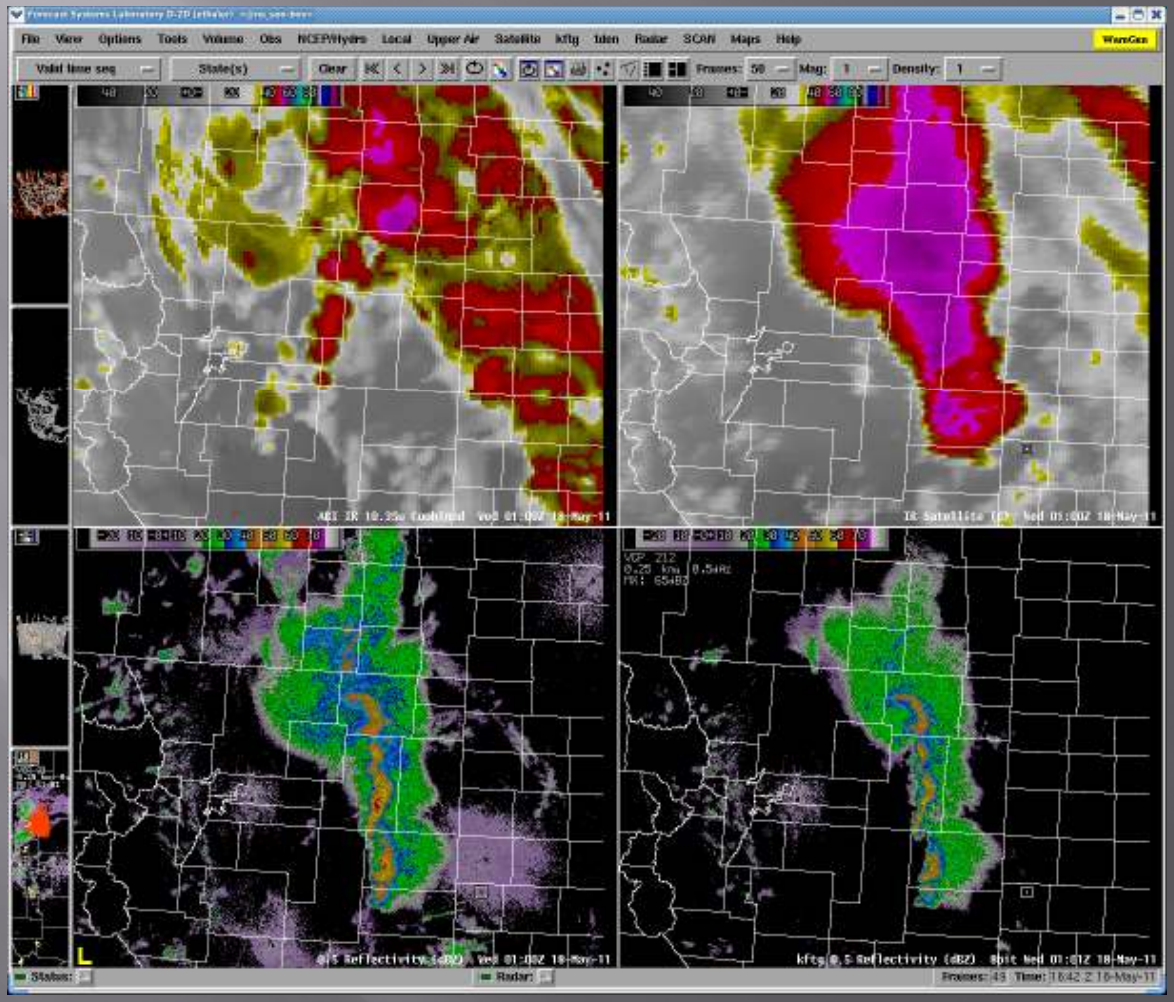

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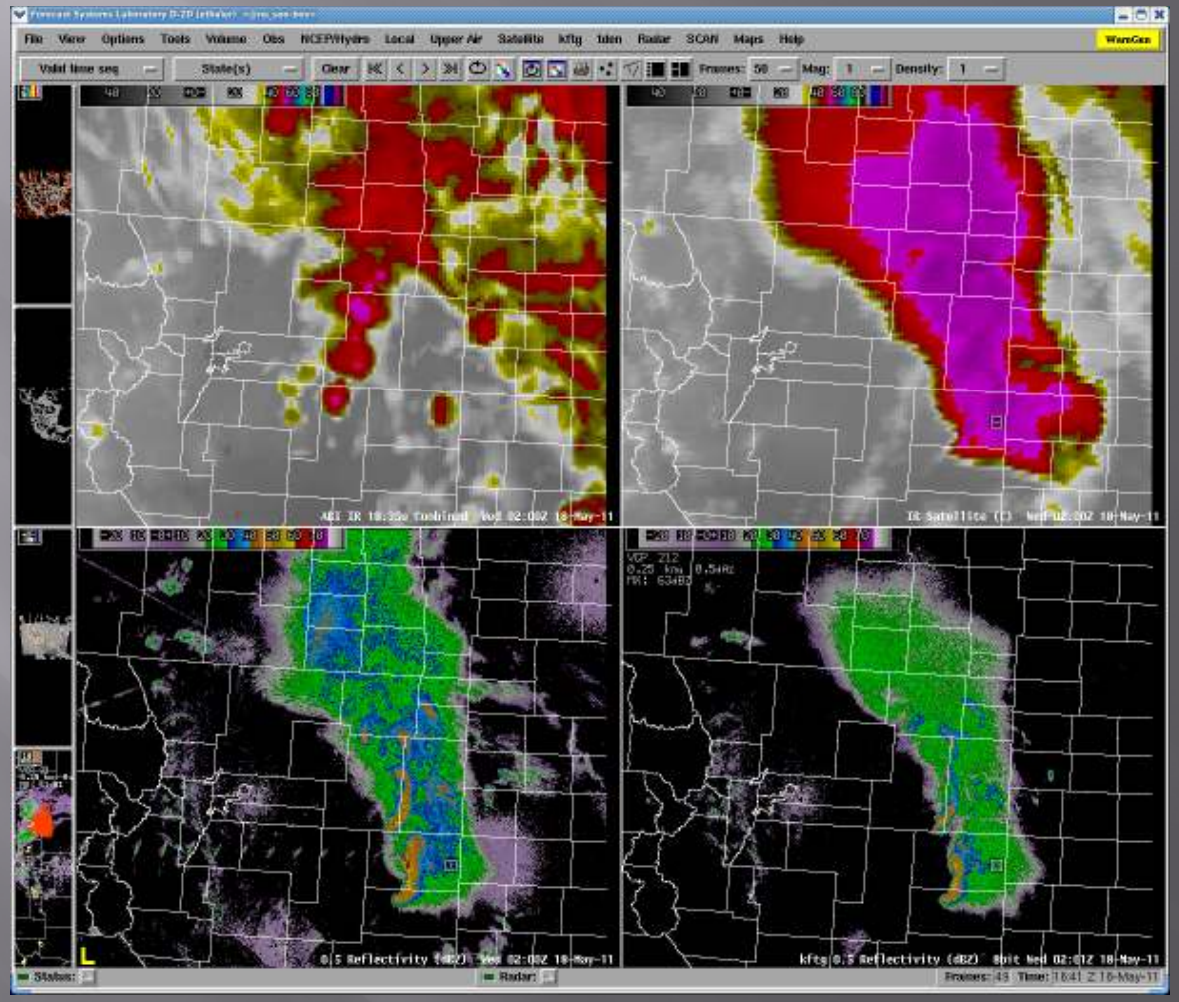

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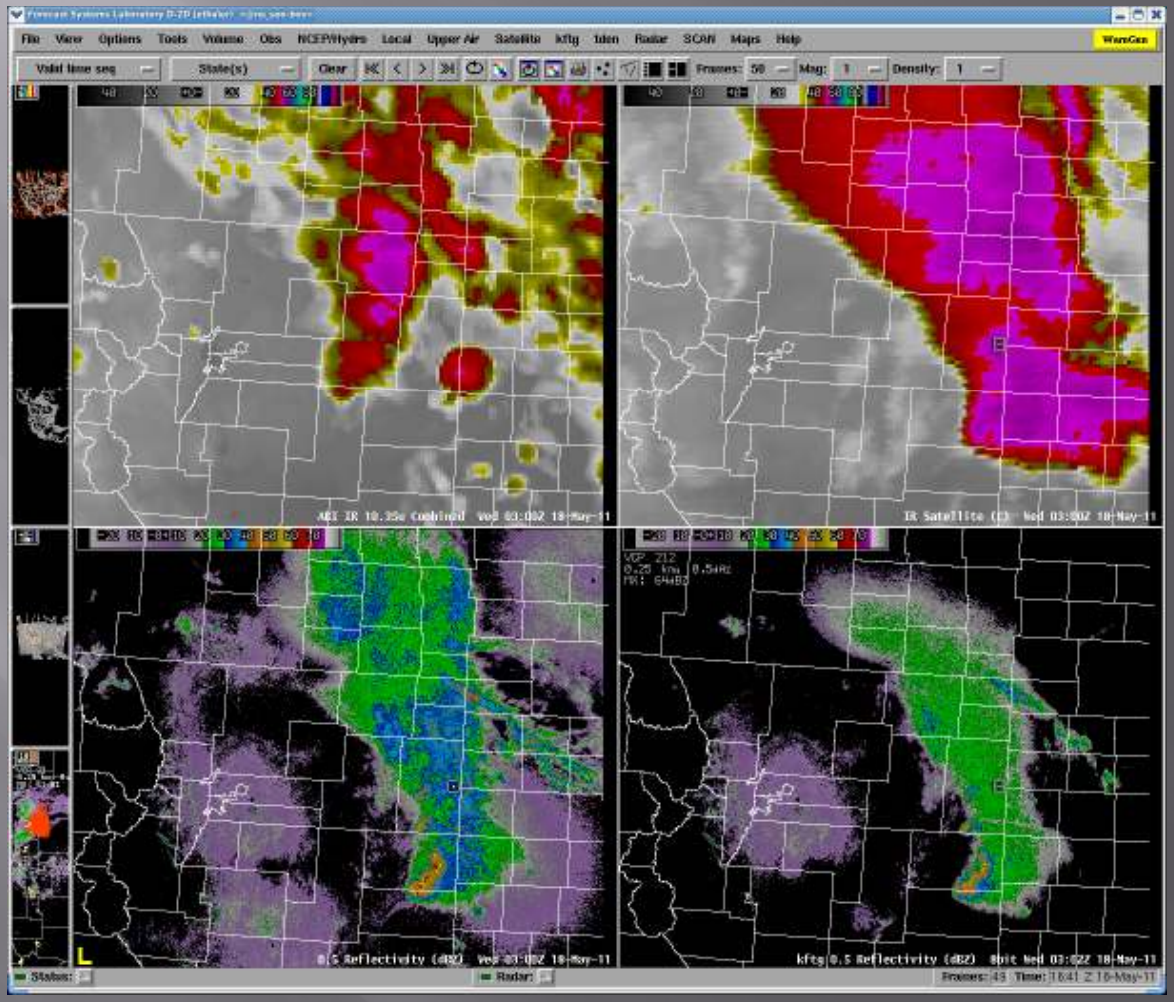

Concluding Remarks

- Overall impression: this data is sweet
- Is it perfect: no, but very useful
- Keep it going: expand to other channels (*e.g.* visible)
- Rethink data delivery: what model data should NCEP provide forecasters at the WFO (*e.g.* sensible weather elements versus "standard" elements)